'ΑΤΛΑΣ ΟΥΡΑ΄ΝΙΟΣ,
The COELESTIAL ATLAS;
OR, A NEW
EPHEMERIS
For the YEAR of our LORD 1792.

Being

BISSEXTILE, or LEAP-YEAR.

Wherein are contained

The Heliocentrick and Geocentrick Places of the Planets, the ECLIPSES of the Luminaries, and other remarkable PHÆNOMENA that will happen this Year.

Carefully computed

From the genuine TABLES of Dr. EDMUND HALLEY, thoſe of Profeſſor MAYER, and other the lateſt and moſt correct ASTRONOMICAL TABLES.

ALSO

A Compleat ALMANACK, containing the FEASTS and FASTS of the Church of ENGLAND; the Times of the LUNATIONS; the Riſing and Setting of the Sun, Moon, and Planets, &c.

Adapted to the

Meridian and Latitude of the Royal Obſervatory of GREENWICH.

To which are added,

Several uſeful TABLES: As, a TABL[illegible] Sun's ſemi-diurnal Arcs, by which the Times of th[illegible] and Setting may be known by Inſpection, on every Da[illegible] and in any Part of GREAT-BRITAIN or IRELAND; [illegible] LE, and a very correct one of the Eclipſes of JUPIT[illegible] ellites; a TABLE of the Sun's Right-Aſcenſion; various [illegible] s of the moſt remarkable fixed Stars, corrected from Mr. [illegible]'s Catalogue; and, laſtly, a correct TABLE of Latitudes and Longitudes of the moſt remarkable Places in the World.

By ROBERT WHITE,

Teacher of the Mathematicks.

'Οι ȣ̓ρανοὶ διηγȣ̃νται δόξαν Θεȣ̃.

The FORTY-THIRD IMPRESSION.

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Chronological Notes for the Year 1792.

Golden Number - - -	7	Septuageſima Sund.	Feb.	5
Cycle of the Sun - -	9	Shrove Sunday -	Feb.	19
The Epact - - - -	0	Eaſter Day - -	April	8
Dominical Letter -	AG	Whit Sunday -	May	27
Number of Direction -	19	Trinity Sunday -	June	3
Roman Indiction - -	10	Advent Sunday -	Dec.	2

Aſtronomical CHARACTERS explained.

♈ Aries	♋ Cancer	♎ Libra	♑ Capricorn
♉ Taurus	♌ Leo	♏ Scorpio	♒ Aquarius
♊ Gemini	♍ Virgo	♐ Sagitary	♓ Piſces

♄ Saturn	☉ Sol (the Sun)	☽ Luna (the Moon)	♅ Herſchel, the New or Georgian Planet.
♃ Jupiter	♀ Venus	☊ Moon's N. Node	
♂ Mars	☿ Mercury	☋ her S. Node	

☌ Conjunction when Planets are in the ſame Sign, Deg. Min. &c.

✱ Sextile when 2 Signs diſt.	△ Trine when 4 Signs diſt.
□ Quartile when 3 Signs diſt.	☍ Oppoſition when 6 Signs diſt.

Of the Four Quarters of the YEAR 1792.

		d	h	m	
THE Spring Quarter begins - -	March	19	9	22	aftern.
The Summer Quarter begins - -	June	20	7	19	aftern.
The Autumnal Quarter begins - -	Sept.	22	9	4	morn.
The Winter Quarter begins - -	Dec.	21	1	35	morn.

THE beautiful Planet VENUS will be a Morning Star 'till Auguſt the 6th; and after that Time ſhe will be an Evening Star to the Year's End.

JUPITER will be a Morning Star 'till the 15th Day of April, then an Evening Star till the 3d of [illegible] at which Time he becomes a Morning Star, and ſo continu[illegible]s End.

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The NAMES of the Learned JUDGES of the LAW.

I. The Right Hon. Lord Thurlow, Lord High Chancellor.

Right Honourable Sir Richard Pepper Arden, Knt. Maſter of the Rolls.

II. In the K. Bench. } Right Hon. Lord Kenyon, L. C. J. Sir W. H. Aſhurſt, Knt. Sir Francis Buller, Bart. Sir Naſh Groſe, Knt.

III. In the C. Pleas. } R. H. Alex. Lord Loughborough, L. C. J. Sir Henry Gould, Knt. John Heath, Eſq; Sir John Wilſon, Knt.

IV. In the Exchequer } Sir James Eyre, Knt. L. C. B. Sir Beaumont Hotham, Knt. Sir Richard Perryn, Knt. Sir Alex. Thompſon, Knt.

Sir Alex. M'Donald, Knt. Attor. General; Sir John Scott, Knt. Solic. Gen.

A TABLE of TERMS and Returns for the Year 1792.

Hilary Term begins Jan. 23, ends Feb. 13.

Returns or Eſſoign-days.		Exc.	Ret.	Ap.	W. D.
In eight Days of St. Hilary, - -	Jan. 20	21	22	23	Mond.
In fifteen Days of St. Hilary - - - -	27	28	29	30	Mond.
On the Mor. of the Purif. of the Bl. V. M.	Feb. 3	4	5	6	Mond.
In eight Days of the Purif. of the Bl. V. M.	9	10	11	13	Mond.

Eaſter Term begins April 25, ends May 21.

In fifteen Days of Eaſter - -	April 22	23	24	25	Wedn.
From Eaſter Day in three Weeks -	29	30	M 1	2	Wedn.
From Eaſter Day in one Month -	May 6	7	8	9	Wedn.
From Eaſter Day in five Weeks - -	13	14	15	16	Wedn.
On the Mor. of the Aſcenſion of the Lord -	18	19	20	21	Monday

Trinity Term begins June 8, ends June 27.

On the Morrow of the Holy Trinity, -	June 4	5	6	8	Friday.
In eight Days of the Holy Trinity, -	10	11	12	13	Wedn.
In fifteen Days of the Holy Trinity, -	17	18	19	20	Wedn.
From the Day of the Holy Trin. in 3 Weeks	24	25	26	27	Wedn.

Michaelmas Term begins Nov. 6, ends Nov. 28.

On the Morrow of All Souls - - -	Nov. 3	4	5	6	Tueſday
On the Morrow of St. Martin - - -	12	13	14	15	Thurſ.
In eight Days of St. Martin - - -	18	19	20	21	Wedn.
In fifteen Days of St. Martin - - - - -	25	26	27	28	Wedn.

N. B. No Sittings in Weſtminſter-Hall on the Second of February, Aſcenſion-day, and Midſummer-day.

The Exchequer opens eight Days before any Term begins, except Trinity, before which it opens but four Days.

Note, The firſt and laſt Days of every Term, are the firſt and laſt Days of Appearance.

BIRTH-DAYS of the ROYAL FAMILY.

KING GEORGE III. June 4,	1738	Prince Aug. Fred. Jan. 27,	1773
Prince of Wales, Aug. 12,	1762	Prince Adolph. Fred. Feb. 24,	1774
Prince Frederick, Aug. 16,	1763	Princeſs Mary, April 25, -	1776
Prince Wm. Henry, Aug. 21,	1765	Princeſs Sophia, Nov. 3, -	1777
Prs. Cha. Aug. Mat. Sept. 29,	1766	Princeſs Amelia, Aug. 7, -	1783
Prince Edward, Nov. 2, -	1767	Queen Charlotte, May 19,	1744
Prs. Auguſta Sophia, Nov. 8,	1768	Prs. Auguſta of Brun. Aug. 11,	1737
Prs. Elizabeth, May 22, -	1770	Duke of Glouceſter, Nov. 25,	1743
Prince Erneſt Auguſtus, June 5,	1771		

SOVEREIGNS of EUROPE, their Acceſſion, &c.

Kingdoms, &c.	To whom ſubject.	When born.		Began to reign.	
England, &c.	George III.	June 4,	1738	Oct. 25,	1760
France	Lewis XVI.	Aug. 23,	1754	May 10,	1774
Ruſſia	Catharine II.	May 2,	1729	July 9,	1762
Spain	Charles IV.	Nov. 11,	1748	Dec. ,	1788
Portugal	Mary	Dec. 7,	1734	Feb. 24,	1777
Pruſſia	Frederic IV.	Sept. 25,	1744	Aug. 17,	1786
Denmark & Norway	Chriſtian VII.	Jan. 29,	1749	Jan. 14,	1766
Sweden	Guſtavus III.	Jan. 24,	1746	Feb. 13,	1771
Germany	Leopold	May 5,	1747	Feb. 20,	1790
Poland	Staniſlaus III.	Jan. 17,	1732	Nov. 25,	1764
Holland	William V.	March 8,	1748	Oct. 11,	1751
Popedom	Pius VI.	Dec. 27,	1717	Feb. 18,	1775
Sardinia	Victor	June 26,	1726	Mar. 20,	1773
Ottoman Empire	Selim III.	July 17,	1761	April 7,	1789

The FULL WEIGHT of the Coins, with the LEAST WEIGHT allowed to paſs of the Gold Coin.

	Wt. allowed.		Full Wt.	
GOLD.	dwt.	gr.	dwt.	gr.
Guinea, - -	5	8	5	$9\frac{39}{89}$
Half Guinea, -	2	16	2	$16\frac{64}{89}$
Quarter Guinea,	1	8	1	$8\frac{32}{89}$

	Full Wt.	
SILVER.	dwt.	gr.
A Crown, - -	19	$8\frac{16}{31}$
Half Crown, -	9	$16\frac{8}{31}$
Shilling, - -	3	$20\frac{28}{31}$
Six Pence, - -	1	$22\frac{14}{31}$

According to the above proportions it appears, that the value of a *lb.* of ſilver is 62 s. or 3 l. 2 s. and of a *lb.* of gold is 44½ guineas, or 46 l. 14 s. 6 d. Alſo that the *oz.* of ſilver is 5 s. 2 d. and the *oz.* of gold 3 l. 17 s. 10½ d. So that the value of the ſtandard gold is 15 times that of the ſilver, and 1-14th more.

A TABLE of the KINGS and QUEENS of ENGLAND ſince the CONQUEST.

Kings and Queens	Born A.D.	Began their Reign			Reigned Y.	M.	D.	Age	Rem. Deaths and Dethroned	Where buried
Will. Conq.	1027	1066	Oct.	14	20	10	26	60	Burſt by Leap.	Caen, Norm
Will. Rufus	1057	1087	Sept.	9	12	10	24	43	Slain accidentally.	Wincheſter
Henry I.	1068	1100	Aug.	2	35	3	29	77		Reading
Stephen	1105	1135	Dec.	1	18	10	24	49		Feverſham
Henry II.	1133	1154	Oct.	25	34	8	11	55		Fonteveraud
Richard I.	1156	1189	July	6	9	9	0	43	Slain with an Arrow.	Fonteveraud
John	1165	1199	April	6	17	6	13	50		Worceſter
Henry III.	1207	1216	Oct.	19	56	0	28	65		Weſtminſter
Edward I.	1239	1272	Nov.	16	34	7	21	67		Weſtminſter
Edward II.	1284	1307	July	7	19	6	18	43		Glouceſter
Edward III.	1312	1327	Jan.	25	50	4	27	65		Weſtminſter
Richard II.	1366	1377	June	21	22	3	8	33	Dep. & murd.	Weſtminſter
Henry IV.	1367	1399	Sept.	29	13	5	20	46		Canterbury
Henry V.	1389	1413	Mar.	20	9	5	11	33		Weſtminſter
Henry VI.	1421	1422	Aug.	31	38	6	4	49	Dep. & murd.	Windſor
Edward IV.	1442	1461	Mar.	4	22	1	5	41		Windſor
Edward V.	1471	1483	April	9	0	2	15	12	Murder'd.	Not known
Richard III.	1443	1483	June	22	2	2	0	42	Slain in Battle.	Leiceſter
Henry VII.	1456	1485	Aug.	22	23	8	0	52		Weſtminſter
Henry VIII.	1492	1509	April	22	37	9	6	55		Windſor
Edward VI.	1537	1547	Jan.	28	6	5	8	15		Weſtminſter
Mary I.	1516	1553	July	6	5	4	11	42		Weſtminſter
Elizabeth	1533	1558	Nov.	17	44	4	7	69		Weſtminſter
James I.	1566	1603	Mar.	24	22	0	3	58		Weſtminſter
Charles I.	1600	1625	Mar.	27	23	10	3	48		Windſor
Charles II.	1630	1649	Jan.	30	36	0	7	54		Weſtminſter
James II.	1633	1685	Feb.	6	4	0	7	67	Abdicated.	St. Germain
Mary II.	1662	1689	Feb.	13	5	10	15	32		Weſtminſter
William III.	1650	1689	Feb.	13	13	0	23	52		Weſtminſter
Anne	1665	1702	Mar.	8	12	4	24	49		Weſtminſter
George I.	1660	1714	Aug.	1	12	10	10	67		Hanover
George II.	1683	1727	June	11	33	4	14	77		Weſtminſter
George III.	1738	1760	Oct.	25	Crowned Sept. 22, 1761.					

Above you view the Riſe and Fall of Kings,
Whoſe Fate ſometimes a uſeful Leſſon brings.
Well if all Men could profit from the paſt!
Each know his Duty, each excel the laſt,
And juſtly execute his ſtated Taſk.

A TABLE of the moſt Reverend, Right Reverend, and Reverend, the ARCHBISHOPS, BISHOPS and DEANS, exerciſing Eccleſiaſtical Juriſdiction, 1792.

BISHOPS.	Sees.	Date.	Succeeded.	DEANS.
Dr. John Moore	*Bangor*	1775	Ewer deceaſed	
Arch-Biſhop	Canterb. A. B.	1783	Cornwallis dec.	Dr. Buller
Dr. Will. Markham	*Cheſter*	1771	Keene tranſlat.	
Arch-Biſhop	York A. B.	1777	Drummond de.	Dr. J. Fountayne
Dr. Beilby Porteus	*Cheſter*	1776	Markham tran.	
	London	1787	Lowth deceaſ.	Biſhop Pretyman
Ho. Dr. S. Barrington	*Landaff*	1769	Shipley tranſl.d	
	Saliſbury	1782	Hume dec.	
	Durham	1791	Thurlow dec.	Biſhop Hinchliffe
Hon. Dr. B. North	*Litch & Cov.*	1771	Egerton tranſl.	
	Worceſter	1774	Johnſon deceaſ.	
	Wincheſter	1781	Thomas deceaſ.	Dr. Newton Ogle
Sir W. Aſhburnham	Chicheſter	1754	Mawſon tranſl.	Mr. Combe Miller
Dr. Charles Moſs	*St. David's*	1766	Lowth tranſl.	
	Bath & Wells	1774	Willes deceaſe	Ld. Fr. Seymour
Dr. John Douglas	*Carliſle*	1787	Law dec.	
	Saliſbury	1791	Barrington tra.	Dr. John Ekins
Dr. John Hinchliffe	Peterborough	1769	Lamb dec.	Dr. C. M. Sutton
H. Dr. James Yorke	*St. David's*	1774	Moſs tranſl.	
	Glouceſter	1779	Warburton dec.	
	Ely	1781	Keene deceaſed	Dr. W. Cooke
Dr. John Thomas	Rocheſter	1774	Pearce dec.	Dr. T. Dampier
Dr. Richard Hurd	*Litch. & Cov.*	1775	B. North tr.	
	Worceſter	1781	B. North tr.	Ho. St. A. St. John
Dr. John Butler	*Oxford*	1777	Lowth tranſl.	
	Hereford	1788	Harley deceaſ.	Dr. N. Wetherell
Dr. John Roſs	Exeter	1778	Keppel dec.	Dr. C. Harward
Dr. John Warren	*St. David's*	1779	Yorke tranſl.	
	Bangor	1783	Moore tranſl.	Dr. Tho. Lloyd
Dr. J. Cornwallis	Litch. & Cov.	1781	Hurd tranſl.	Dr. Bapt. Proby
Dr. Lewis Bagot	*Briſtol*	1782	Newton dec.	
	Norwich	1783	Yonge dec.	
	St. Aſaph	1790	Hallifax dec.	Mr. W. D. Shipley
Dr. Richard Watſon	Landaff	1782	Barrington tr.	Dr. R. Price, Pr.
Dr. Edward Smalwel	*St. David's*	1783	Warren tranſl.	
	Oxford	1788	Butler tranſl.	Dr. Cyril Jackſon
Dr. Chriſt. Wilſon	Briſtol	1783	Bagot tranſl.	Dr. John Hallam
Dr. G. Pretyman	Lincoln	1787	Thurlow tran.	Sir Ri. Kaye, Bt.
Dr. William Cleaver	Cheſter	1788	Porteus tran.	Dr. G. Cotton
Dr. Samuel Horſley	St. David's	1788	Smalwell tr.	Mr. Wollaſton, P.
Dr. Richard Beadon	Glouceſter	1789	Hallifax tran.	Dr. Joſiah Tucker
Dr. George Horne	Norwich	1790	Bagot tran.	Dr. Joſeph Turner
Dr. E. V. Vernon	Carliſle	1791	Douglas tranſl.	Dr. Jeffery Ekins
	Weſtminſter	1768		Biſhop Thomas
Dr. Claudius Crigan	Sodor & Man	1784	Maſon dec.	
	Windſor	1788		Biſhop Cornwallis

In the courſe of this year there will happen only two eclipſes, and thoſe both of the ſun, but none of the moon, and both will be inviſible to the inhabitants of Great Britain; though the latter will be viſible to France and both of them viſible to the moſt ſouthern parts of Europe, as well as to moſt parts of Aſia and Africa. Other particulars of them, are as follow:

I. The firſt will happen on Thurſday the 22d of March. The conjunction of the ſun and moon is at 5h. 50m. in longitude 2° 40′½ of ♈, the moon's latitude being 3′½ north. The ſun will be centrally eclipſed on the meridian at 5h. 51½m. in longitude 87° 52′½ weſt, and latitude 4° 45′ north. This eclipſe will be central and annular at ſun-riſe in longitude 150° weſt, and latitude 14° 20′ ſouth. The part of the penumbra will paſs to the ſouth of the Marquiſes; to the north of the Gallapagos, about noon; in the parts ſouth of New Spain, a little to the north of Porto-Bello and Carthagena; between Antiga and Nevis in the Weſt Indies; and will finiſh at ſun-ſet 4° 20′ north of the Cape Verd iſles. The northern phaſes will be ſeen in the ſouth parts of America, and the ſouthern phaſes in Mexico, Louiſiana, the United States of America, and Newfoundland. And a part of the eclipſe will be ſeen before ſun-ſet, on the coaſts of Senegal, at the Cape Verd iſles, the Canaries, and Agores. At Liſbon it begins at 6h. 5m.

II. The other eclipſe happens on the 16th of September in the forenoon. The conjunction is at 9h. 18m. in the morning, in longitude 24° 8′ of ♍, the moon's latitude 1′ ſouth. This eclipſe will be central and annular at ſun-riſe at the eaſtermoſt of the Cape Verds: the line of the central eclipſe will then enter Africa at the mouth of the river Senegal; thence croſſing the middle of that quarter of the globe in a ſouth-eaſterly direction, and quitting the eaſt ſide of it at the equator; thence acroſs the Indian ocean, and terminating at ſun-ſet in 18° 15′ ſouth latitude, a little ſouth of the iſland of Sumatra; and being centrally eclipſed on the meridian at 9h. 18m. in longitude 40° 30′ eaſt, and latitude 1° 45′ north, a little before quitting Africa. The ſouth phaſes of the eclipſe will be ſeen in the ſouthern parts of Europe and Aſia, in the northern parts of Africa, and in the Indian iſles. And the northern phaſes will be ſeen in the ſouthern parts of Africa (except only near the point about the Cape of Good Hope) and in Madagaſcar, &c.

	Obliquity of the Ecliptic.		Equation of Equinoctial Points.	
	For 1791.	For 1792.	1791.	1792.
Jan. 1,	23° 27′ 50″.2	23° 27′ 48″.7	+ 8″.3	+ 2″.5
Apr. 1,	23 27 49.8	23 27 48.5	+ 6.9	+ 1.0
July 1,	23 27 49.4	23 27 48.4	+ 5.5	− 0.6
Oct. 1,	23 27 49.0	23 27 48.4	+ 4.1	− 2.1
Dec. 31,	23 27 48.7	23 27 48.3	+ 2.5	− 3.6

The Lunations.

Full Moon the 9th day, at 4 minutes paſt 9 morning.
Laſt quarter the 17th day, at 28 minutes paſt 2 morning.
New Moon the 23d day, at 27 minutes paſt 5 afternoon.
Firſt quarter the 30th day, at 1 minute paſt 11 night.

M D	Sundays & other remark. days	☉ riſes	☉ ſets	☉'s declin.	☽'s declin.	☽ riſes & ſets	☽ ſouth	Clock bef. ☉
A	S. a. Ch. Circu.	8 5	3 55	23 s 1	5 m 12	morn.	6 a 18	4′ 2″
2		8 4	3 56	22 56	8 50	1 4	7 3	4 30
3		8 4	3 56	22 50	12 2	2 7	7 48	4 58
4		8 3	3 57	22 44	14 41	3 5	8 33	5 26
5	Old Chriſt. Day	8 2	3 58	22 38	16 41	4 7	9 19	5 52
6	Epiphany	Tw. day	3 59	22 31	17 59	5 4	10 5	6 19
7		8 0	4 0	22 23	18 31	5 55	10 52	6 45
A	1 S. aft. Epiph.	Lucian	4 0	22 15	18 13	6 42	11 39	7 10
9	Plow Monday	7 59	4 1	22 7	17 7	☽ riſes	morn	7 35
10		7 58	4 2	21 58	15 14	5 a 46	0 26	8 0
11		7 57	4 3	21 49	12 39	6 49	1 13	8 24
12	O. N. Year's d.	7 56	4 4	21 39	9 29	7 52	1 59	8 47
13	Hila. Cam. T. b.	7 54	4 6	21 29	5 51	8 59	2 45	9 10
14	Oxf. Term beg.	7 53	4 7	21 19	1 55	10 6	3 31	9 32
A	2 S. af. Epiph.	7 52	4 8	21 8	2 s 12	11 16	4 17	9 53
16		7 51	4 9	20 57	6 17	morn.	5 4	10 14
17	Old Twe. Day	7 50	4 10	20 45	10 10	0 29	5 54	10 34
18	Q. Char. b. d. k.	Priſca	4 12	20 33	13 34	1 42	6 47	10 53
19		7 47	4 13	20 20	16 15	2 54	7 42	11 12
20	Fabian	7 46	4 14	20 8	17 56	4 5	8 40	11 30
21	Agnes	7 44	4 16	19 54	18 26	5 10	9 41	11 47
A	3 S. aft. Epiph.	Vince.	4 17	19 41	17 40	☽ ſets	10 42	12 3
23	Hil. Term beg.	7 41	4 19	19 27	15 39	4 a 32	11 42	12 19
24		7 40	4 20	19 13	12 38	5 47	0 a 40	12 34
25	Con. of St. Paul	7 38	4 22	18 58	8 54	7 3	1 34	12 48
26		7 37	4 23	18 43	4 45	8 18	2 26	13 1
27	Pr. Aug. Fr. b.	7 35	4 25	18 28	0 31	9 29	3 15	13 13
28		7 34	4 26	18 12	3 n 37	10 38	4 2	13 25
A	4 Sun. af. Epip.	7 32	4 28	17 56	7 27	11 44	4 48	13 36
30	K. Cha. I. mar.	7 31	4 29	17 40	10 52	morn.	5 34	13 46
31		7 29	4 31	17 23	13 45	0 50	6 20	13 55

Days	Day ncreaſ.	Length of Day.	Helioc. long. ♄	Helioc. long. ♃	Helioc. long. ♂	Helioc. long. ⊖	Helioc long. ♀	Helioc. long. ☿	♄ ſets.
1	0 8	7 50	18♈24	18♎38	23♌31	1[illegible]♋5[illegible]	25♌23	16♈ 8	0 m20
7	0 16	8 0	18 37	19 6	26 9	17 0	5♍ 8	20♉41	11 55
13	0 28	8 12	18 49	19 33	28 46	23 7	14 54	28♊19	11 30
19	0 44	8 28	19 2	20 0	1♍23	29 14	24 38	4♌22	11 5
25	1 0	8 44	19 15	20 27	4 1	5♌20	4♎21	5♍20	10 40

January.

Days	Day lig. begins	Day lig. ends	Durat. twilig.	Pl. ☽'s node	♄'s latitude	♃'s latitude	♂'s latitude	♀'s latitude	☿'s latitude
1	5 59	6 1	2 10	7♎57	2 s 32	1 n 15	2 n 39	3 n 20	1 s 9
7	5 56	6 4	2 9	7 38	2 30	1 16	2 47	3 16	0 n 13
13	5 52	6 8	2 7	7 19	2 28	1 17	2 55	3 7	2 3
19	5 46	6 14	2 5	7 0	2 27	1 19	3 3	2 56	3 23
25	5 39	6 21	2 3	6 41	2 25	1 20	3 11	2 38	3 23

Days	☉'s longitude	☽'s long.	☽'s latitude	♄'s long.	♃'s long.	♂'s long.	♀'s long.	☿'s long.
A	♑10 53 25	14♈33	0 s 35	12♈22	28♎32	28♍50	24♏4	0♒9
2	11 54 36	26 52	1 38	12 24	28 40	29 10	25 6	1 13
3	12 55 46	8♉56	2 36	12 26	28 47	29 30	26 9	2 10
4	13 56 56	20 52	3 26	12 28	28 55	29 49	27 11	3 1
5	14 58 6	2♊43	4 6	12 31	29 2	0♎7	28 14	3 46
6	15 59 15	14 34	4 36	12 33	29 9	0 25	29 18	4 21
7	17 0 24	26 26	4 54	12 36	29 15	0 42	0♐22	4 46
A	18 1 32	8♋22	5 0	12 38	29 22	0 59	1 26	5 3
9	19 2 40	20 23	4 51	12 41	29 28	1 15	2 30	5 R 8
10	20 3 48	2♌31	4 30	12 44	29 35	1 31	3 35	5 1
11	21 4 55	14 45	3 56	12 47	29 41	1 47	4 40	4 43
12	22 6 2	27 8	3 11	12 50	29 47	2 2	5 45	4 13
13	23 7 9	9♍40	2 15	12 53	29 52	2 17	6 51	3 31
14	24 8 15	22 24	1 12	12 56	29 58	2 31	7 57	2 37
A	25 9 21	5♎22	0 4	13 0	0♏3	2 45	9 3	1 37
16	26 10 27	18 38	1 n 6	13 3	0 9	2 58	10 10	0 30
17	27 11 33	2♏13	2 14	13 6	0 14	3 11	11 16	29♑18
18	28 12 38	16 10	3 16	13 10	0 19	3 23	12 22	28 2
19	29 13 43	0♐30	4 7	13 13	0 24	3 35	13 29	26 42
20	♒0 14 48	15 10	4 44	13 16	0 28	3 46	14 36	25 29
21	1 15 52	6♑5	5 2	13 20	0 33	3 57	15 44	24 17
A	2 16 55	15 8	4 59	13 24	0 37	4 7	16 51	23 7
23	3 17 57	0♒9	4 36	13 28	0 42	4 16	17 59	22 7
24	4 18 59	14 58	3 54	13 32	0 46	4 25	19 6	21 16
25	5 20 0	29 27	2 58	13 37	0 50	4 33	20 14	20 33
26	6 20 59	13♓30	1 53	13 41	0 54	4 40	21 22	20 0
27	7 21 57	27 5	0 43	13 46	0 57	4 47	22 31	19 35
28	8 22 54	10♈12	0 s 28	13 50	1 0	4 53	23 39	19 17
A	9 23 50	22 55	1 34	13 55	1 4	4 58	24 48	19 11
30	10 24 44	5♉17	2 35	13 59	1 7	5 3	25 56	19 D 9
31	11 25 37	17 24	3 27	14 4	1 10	5 8	27 5	19 15

Days	♃ riſes	♂ riſes	♀ riſes	☿ riſes	♄'s declin.	♃'s declin.	♂'s declin.	♀'s declin.	☿'s declin.
1	1 m 49	10 a 53	4 m 2	9 m 17	2 n 34	9 s 48	2 n 54	15 s 35	21 s 16
7	1 27	10 37	4 10	8 44	2 41	10 2	2 17	17 4	18 53
13	1 4	10 19	4 18	8 11	2 49	10 14	1 46	18 24	17 24
19	0 42	10 0	4 26	7 22	2 58	10 24	1 22	19 34	17 31
25	0 19	9 40	4 35	6 32	3 9	10 32	1 7	20 2[illegible]	18 33

February hath XXIX Days. White.

The Lunations.

Full Moon the 8th day, at 56 minutes paſt 2 morning.
Laſt quarter the 15th day, at 51 minutes paſt 11 morning.
New Moon the 22d day, at 4 minutes paſt 5 morning.
Firſt quarter the 29th day, at 24 minutes paſt 7 night.

M D	Sundays & other remark. days	☉ riſes	☉ ſets	☉'s declin.	☽'s declin.	☽ riſes & ſets	☽ ſouth	Clock bef. ☉
1		7 27	4 33	17 s 6	15 n 59	1 m 51	7 a 6	14′ 3″
2	**Purif. Candlem.**	7 25	4 35	16 49	17 30	2 46	7 53	14 10
3	Blaſe	7 24	4 36	16 31	18 17	3 41	8 40	14 17
4	[Agatha	7 22	4 38	16 13	18 16	4 30	9 27	14 22
A	**Septuageſima S.**	7 20	4 40	15 55	17 26	5 14	10 15	14 27
6		7 19	4 41	15 37	15 48	5 44	11 2	14 31
7		7 17	4 43	15 18	13 26	6 27	11 49	14 34
8		7 15	4 45	14 59	10 26	☽ riſes	morn	14 37
9		7 13	4 47	14 40	6 54	6 a 43	0 36	14 38
10		7 11	4 49	14 21	3 0	7 52	1 25	14 39
11		7 9	4 51	14 1	1 s 6	9 1	2 10	14 39
A	**Sexageſima S.**	7 8	4 52	13 41	5 12	10 13	2 58	14 38
13	T. ends OCa. D.	7 6	4 54	13 21	9 6	11 26	3 47	14 37
14	Valentine	7 4	4 56	13 1	12 35	morn	4 39	14 35
15		7 2	4 58	12 40	15 25	0 39	5 32	14 32
16		7 0	5 0	12 20	17 22	1 48	6 28	14 28
17		6 58	5 2	11 59	18 15	2 54	7 26	14 24
18		6 56	5 4	11 38	17 57	3 54	8 25	14 19
A	**Quinq. Shro. S.**	6 54	5 6	11 16	16 29	4 47	9 24	14 13
20	Cam. T. div. m.	6 52	5 8	10 55	13 58	5 30	10 22	14 7
21	**Shrove Tueſday**	6 51	5 9	10 33	10 35	6 7	11 17	14 0
22	**Aſh Wedneſday**	6 49	5 11	10 11	6 39	☾ ſets	0 a 11	13 52
23	[A. F. b.	6 47	5 13	9 50	2 25	7 a 5	1 2	13 44
24	**St. Matthias Pr.**	6 45	5 15	9 27	1 n 49	8 17	1 51	13 35
25		6 43	5 17	9 5	5 51	9 26	2 39	13 26
A	**1 Sun. in Lent**	6 41	5 19	8 43	9 29	10 33	3 27	13 16
27		6 39	5 21	8 20	12 37	11 38	4 14	13 5
28		6 37	5 23	7 58	15 7	morn	5 1	12 54
29	**Ember Week**	6 35	5 25	7 35	16 55	0 36	5 48	12 42

Days	Day increaſ.	Length of day	Helioc. long. ♄	Helioc. long. ♃	Helioc. long ♂	Helioc. long. ⊖	Helioc. long. ♀	Helioc. long. ☿	♄ ſets
1	1 24	9 8	19 ♈ 29	20 ♎ 59	7 ♍ 4	12 ♌ 26	15 ♎ 39	4 ♎ 43	10 m 15
7	1 45	9 26	19 42	21 26	9 41	18 31	25 19	25 39	9 54
13	2 7	9 49	19 54	21 54	12 19	24 35	4 ♏ 58	14 ♏ 6	9 34
19	2 25	10 10	20 7	22 21	14 57	0 ♍ 38	14 34	1 ♐ 8	9 14
25	2 51	10 34	20 19	22 48	17 35	6 40	24 9	17 39	8 54

February.

Days	Day lig. begins	Day lig. ends	Durat. twilig.	Pl. ☽'s node	♄'s latitude	♃'s latitude	♂'s latitude	♀'s latitude	☿'s latitude
1	5 30	6 30	2 0	6 ♎ 18	2 s 24	1 n 22	3 n 20	2 n 16	2 n 17
7	5 21	6 39	1 59	5 59	2 22	1 23	3 28	1 55	1 9
13	5 12	6 48	1 58	5 40	2 21	1 24	3 35	1 33	0 6
19	5 0	7 0	1 57	5 21	2 20	1 26	3 41	1 10	0 s 47
25	4 50	7 10	1 56	5 2	2 19	1 27	3 45	0 48	1 28

Days	☉'s longitude			☽'s long.	☽'s latitude	♄'s long.	♃'s long.	♂'s long.	♀'s long.	☿'s long.
1	♒ 12	26	28	29 ♉ 21	4 s 10	14 ♈ 9	1 ♏ 13	5 ♎ 12	28 ♐ 14	19 ♑ 29
2	13	27	17	11 ♊ 13	4 41	14 14	1 16	5 17	29 2	19 47
3	14	28	5	23 4	5 0	14 19	1 18	5 21	0 ♑ 33	20 13
4	15	28	52	4 ♋ 58	5 6	14 24	1 20	5 24	1 42	20 47
A	16	29	37	16 58	4 59	14 30	1 22	5 R25	2 52	21 23
6	17	30	21	29 6	4 39	14 35	1 24	5 23	4 1	22 4
7	18	31	3	11 ♌ 24	4 5	14 40	1 25	5 18	5 11	22 50
8	19	31	44	23 53	3 19	14 45	1 26	5 16	6 21	23 38
9	20	32	23	6 ♍ 32	2 23	14 51	1 27	5 13	7 31	24 30
10	21	33	1	19 23	1 18	14 56	1 28	5 10	8 41	25 27
11	22	33	38	2 ♎ 25	0 9	15 2	1 29	5 6	9 51	26 26
A	23	34	14	15 39	1 n 3	15 7	1 30	5 2	11 2	27 27
13	24	34	48	29 6	2 12	15 13	1 30	4 58	12 12	28 31
14	25	35	21	12 ♏ 46	3 15	15 18	1 31	4 52	13 22	29 37
15	26	35	53	26 41	4 8	15 24	1 R 31	4 45	14 33	0 ♒ 45
16	27	36	24	10 ♐ 49	4 46	15 30	1 31	4 37	15 43	1 56
17	28	36	53	25 10	5 8	15 36	1 30	4 28	16 54	3 9
18	29	37	21	9 ♑ 40	5 10	15 42	1 30	4 19	18 4	4 23
A	♓ 0	37	48	24 15	4 52	15 48	1 29	4 9	19 15	5 38
20	1	38	13	8 ♒ 49	4 15	15 54	1 28	3 58	20 26	6 54
21	2	38	37	23 15	3 23	16 1	1 27	3 46	21 37	8 12
22	3	38	59	7 ♓ 27	2 18	16 7	1 25	3 34	22 48	9 34
23	4	39	19	21 19	1 7	16 14	1 24	3 21	23 59	10 56
24	5	39	38	4 ♈ 49	0 s 7	16 20	1 22	3 7	25 11	12 19
25	6	39	55	17 57	1 18	16 27	1 20	2 53	26 22	13 43
A	7	40	10	0 ♉ 42	2 23	16 33	1 18	2 38	27 33	15 9
27	8	40	22	13 8	3 20	16 40	1 15	2 22	28 44	16 36
28	9	40	32	25 19	4 7	16 46	1 13	2 5	29 55	18 4
29	10	40	40	7 ♊ 19	4 42	16 53	1 10	1 47	1 ♒ 6	19 31

Days	♃ riſes	♂ riſes	♀ riſes	☿ riſes	♄'s declin.	♃'s declin.	♂'s declin.	♀'s declin.	☿'s declin.
1	11 a 48	9 a 14	4 m 45	6 m 7	3 n 23	10 s 36	1 n 0	21 s 11	19 s 47
7	11 25	8 51	4 52	6 6	3 36	10 41	1 4	21 27	20 24
13	11 2	8 25	4 58	6 3	3 50	10 41	1 19	21 21	20 23
19	10 39	7 57	5 3	6 4	4 4	10 40	1 44	20 55	19 38
25	10 16	7 26	5 6	6 6	4 20	10 36	2 18	20 8	18 8

March hath XXXI Days.

The Lunations.

Full Moon	the 8th day,	at 35 minutes past	6 afternoon.
Last quarter	the 15th day,	at 4 minutes past	7 afternoon.
New Moon	the 22d day,	at 50 minutes past	5 afternoon.
First quarter	the 30th day,	at 36 minutes past	3 afternoon.

M D	Sundays & other remark. days	☉ rises	☉ sets	☉'s declin.	☾'s declin.	☽ rises & sets	☾ South	Clock bef. ☉
1	David	6 33	5 27	7 s 12	17 n 58	1 m 33	6 a 35	12′ 30″
2	Chad	6 31	5 29	6 49	18 13	2 24	7 22	12 17
3		6 29	5 31	6 26	17 41	3 10	8 10	12 4
G	2 Sund. in Lent	6 27	5 33	6 3	16 20	3 52	8 58	11 50
5		6 25	5 35	5 40	14 14	4 29	9 45	11 35
6		6 23	5 37	5 17	11 28	5 0	10 33	11 21
7	Perpetua	6 21	5 39	4 53	8 6	5 30	11 21	11 6
8		6 19	5 41	4 30	4 17	☽ rises	morn	10 50
9		6 17	5 43	4 6	0 10	6 a 53	0 9	10 34
10		6 15	5 45	3 43	4 s 1	8 6	0 58	10 18
G	3 Sund. in Lent	6 13	5 47	3 19	8 4	9 19	1 48	10 2
12	Gregory	6 11	5 49	2 56	11 43	10 32	2 40	9 45
13		6 9	5 51	2 32	14 44	11 44	3 34	9 28
14		6 7	5 53	2 8	16 55	morn	4 29	9 11
15		6 5	5 55	1 45	18 3	0 53	5 26	8 54
16		6 3	5 57	1 21	18 4	1 54	6 24	8 36
17	St. Patrick	6 1	5 59	0 57	16 56	2 44	7 22	8 18
G	4 or Mid-Sund.	5 59	6 1	0 34	14 47	3 34	8 19	8 0
19	[Ed. K. W. S.	5 57	6 3	0 10	11 46	4 12	9 14	7 42
20		5 55	6 5	0 n 14	8 6	4 45	10 7	7 24
21	Benedict	5 53	6 7	0 37	4 2	5 15	10 58	7 6
22		5 51	6 9	1 1	0 n 10	☽ sets	11 47	6 47
23		5 49	6 11	1 25	4 17	7 a 14	0 a 37	6 29
24	[LadyDay	5 47	6 13	1 48	8 6	8 22	1 24	6 10
G	5 S. in L. Ann.	5 45	6 15	2 12	11 27	9 28	2 12	5 52
26		5 43	6 17	2 35	14 14	10 31	3 0	5 33
27		5 41	6 19	2 59	16 19	11 30	3 48	5 15
28		5 39	6 21	3 22	17 39	morn	4 35	4 56
29		5 37	6 23	3 45	18 11	0 23	5 22	4 38
30	Cam. T. ends	5 36	6 24	4 9	17 55	1 11	6 10	4 19
31	Oxf. T. ends	5 34	6 26	4 32	16 52	1 54	6 58	4 1

Days	Day increaſ.	Length of day	Helioc. long. ♄	Helioc. long. ♃	Helioc. long. ♂	Helioc. long. ⊖	Helioc. long. ♀	Helioc. long. ☿	♄ ſets.
1	3 11	10 55	20 ♈ 30	23 ♎ 11	19 ♍ 47	11 ♍ 41	2 ♐ 7	1 ♑ 32	8 a 38
7	3 35	11 19	20 43	23 38	22 26	17 41	11 39	19 1	8 20
13	3 59	11 43	20 55	24 6	25 5	23 39	21 10	8 ♒ 11	8 2
19	4 23	12 7	21 8	24 33	27 45	29 37	0 ♑ 40	0 ♓ 10	7 44
25	4 47	12 31	21 20	25 0	0 ♎ 26	5 ♎ 13	10 9	26 9	7 27

March.

Days	Day lig. begins	Day lig. ends	Durat. twilig.	Pl. ☽'s node	♄'s latitude	♃'s latitude	♂'s latitude	♀'s latitude	☿'s latitude
1	4 43	7 17	1 55	4 ♎ 46	2 s 19	1 n 28	3 n 47	0 n 29	1 s 53
7	4 30	7 30	1 56	4 27	2 18	1 29	3 46	0 7	2 10
13	4 17	7 43	1 57	4 8	2 17	1 30	3 42	0 s 14	2 12
19	4 4	7 56	1 58	3 49	2 17	1 31	3 35	0 32	1 58
25	3 50	8 10	2 0	3 30	2 16	1 32	3 25	0 49	1 25

Days	☉'s longitude	☽'s long.	☽'s latitude	♄'s long.	♃'s long.	♂'s long.	♀'s long.	☿'s long.
1	♓ 11 40 46	19 ♊ 12	5 s 5	16 ♈ 59	1 ♏ 8	1 ♎ 29	2 ♒ 18	21 ♒ 3
2	12 40 50	1 ♋ 5	5 14	17 6	1 5	1 10	3 29	22 35
3	13 40 51	13 0	5 11	17 13	1 2	0 51	4 41	24 7
G	14 40 50	25 2	4 53	17 20	0 59	0 31	5 52	25 40
5	15 40 47	7 ♌ 16	4 22	17 26	0 55	0 11	7 4	27 14
6	16 40 42	19 42	3 38	17 33	0 52	29 ♍ 51	8 16	28 51
7	17 40 35	2 ♍ 24	2 43	17 39	0 48	29 30	9 28	0 ♓ 29
8	18 40 26	15 21	1 38	17 46	0 44	29 9	10 40	2 6
9	19 40 15	28 33	0 27	17 53	0 40	28 47	11 51	3 45
10	20 40 2	12 ♎ 0	0 n 47	18 0	0 35	28 25	13 3	5 28
G	21 39 47	25 39	2 0	18 7	0 31	28 2	14 15	7 10
12	22 39 30	9 ♏ 30	3 7	18 15	0 27	27 39	15 27	8 53
13	23 39 12	23 29	4 3	18 22	0 22	27 16	16 39	10 37
14	24 38 52	7 ♐ 35	4 45	18 29	0 17	26 53	17 51	12 22
15	25 38 30	21 45	5 10	18 36	0 12	26 20	19 3	14 9
16	26 38 7	5 ♑ 58	5 17	18 43	0 7	26 5	20 15	15 57
17	27 37 42	20 11	5 4	18 50	0 1	25 41	21 28	17 45
G	28 37 15	4 ♒ 21	4 32	18 58	29 ♎ 56	25 18	22 40	19 36
19	29 36 46	18 25	3 45	19 5	29 50	24 55	23 52	21 29
20	♈ 0 36 16	2 ♓ 21	2 44	19 13	29 44	24 32	25 4	23 21
21	1 35 44	16 5	1 35	19 20	29 38	24 9	26 17	25 15
22	2 35 10	29 35	0 21	19 28	29 32	23 46	27 29	27 12
23	3 34 34	12 ♈ 50	0 s 52	19 35	29 26	23 23	28 41	29 9
24	4 33 56	25 47	2 1	19 43	29 20	23 0	29 53	1 ♈ 7
G	5 33 16	8 ♉ 27	3 2	19 50	29 14	22 38	1 ♓ 6	3 6
26	6 32 33	20 52	3 54	19 58	29 7	22 16	2 18	5 6
27	7 31 48	3 ♊ 3	4 34	20 5	29 1	21 54	3 31	7 7
28	8 31 1	15 4	5 1	20 13	28 54	21 33	4 43	9 9
29	9 30 11	26 59	5 15	20 20	28 47	21 12	5 55	11 11
30	10 29 19	8 ♋ 51	5 15	20 28	28 0	20 52	7 8	13 15
31	11 28 24	20 47	5 2	20 35	28 33	20 33	8 20	15 20

Days	♃ riſes	♂ riſes	♀ riſes	☿ riſes	♄'s declin.	♃'s declin.	♂'s declin.	♀'s declin.	☿'s declin.
1	9 a 54	6 a 59	5 m 6	6 m 5	4 n 32	10 s 31	2 n 52	19 s 12	16 s 17
7	9 30	6 25	5 4	6 3	4 49	10 23	3 39	17 47	13 21
13	9 6	5 52	5 0	6 1	5 5	10 12	4 29	16 4	9 38
19	8 41	5 16	4 55	5 56	5 22	10 0	5 19	14 5	5 11
25	8 16	4 42	4 50	5 59	5 39	9 47	6 4	11 52	0 4

April hath xxx Days White.

The LUNATIONS.

Full Moon the 7th day, at 22 minutes paſt 7 morning.
Laſt quarter the 14th day, at 16 minutes paſt 1 morning.
New Moon the 21ſt day, at 36 minutes paſt 7 morning.
Firſt quarter the 29th day, at 2 minutes paſt 10 morning.

M D	Sundays & other remark. days	☉ riſes	☉ ſets	☉'s declin.	☽'s declin.	☽ riſes & ſets	☽ South	Clock bef. ☉
G	6 or Palm Sun.	5 32	6 28	4 n 55	15 n 4	2 m 32	7 a 45	3′ 42″
2		5 30	6 30	5 18	12 33	3 6	8 32	3 24
3	Richard	5 28	6 32	5 41	9 25	3 37	9 19	3 6
4	St. Ambroſe	5 26	6 34	6 4	5 46	4 5	10 7	2 48
5	Maundy Thurſ.	O.L.D	6 36	6 26	1 44	4 31	10 56	2 30
6	Good Friday	5 22	6 38	6 49	2 s 29	4 58	11 46	2 13
7		5 20	6 40	7 11	6 41	☾ riſes	morn	1 55
G	Eaſter Day	5 18	6 42	7 34	10 35	8 a 24	0 39	1 38
9	Eaſter Monday	5 16	6 44	7 56	13 56	9 34	1 33	1 21
10	Eaſter Tueſday	5 14	6 46	8 18	16 26	10 51	2 30	1 5
11		5 12	6 48	8 40	17 53	11 56	3 28	0 48
12		5 10	6 50	9 2	18 11	morn	4 27	0 32
13		5 8	6 52	9 24	17 20	0 53	5 26	0 17
14		5 6	6 54	9 45	15 24	1 43	6 23	0 1
G	Low Sunday	5 5	6 55	10 6	12 36	2 23	7 18	0 af. 13
16		5 3	6 57	10 28	9 8	2 56	8 10	0 28
17		5 1	6 59	10 49	5 14	3 26	9 1	0 42
18	Ox. & Ca. T. beg.	4 59	7 1	11 9	1 7	3 53	9 50	0 56
19	Alphege	4 57	7 3	11 30	2 n 59	4 19	10 38	1 9
20		4 55	7 5	11 51	6 52	4 47	11 25	1 22
21		4 53	7 7	12 11	10 24	☾ ſets	0 a 12	1 34
G	2 S. aft. Eaſter	4 51	7 9	12 31	13 23	8 a 25	1 0	1 46
23	St. George	4 50	7 10	12 51	15 45	9 25	1 47	1 58
24	[M. b.	4 48	7 12	13 10	17 21	10 22	2 35	2 9
25	St. Mark. Pre.	Ter. b.	7 14	13 30	18 11	11 13	3 23	2 19
26		4 44	7 16	13 49	18 11	11 58	4 10	2 29
27		4 42	7 18	14 8	17 25	morn	4 57	2 39
28		4 40	7 20	14 27	15 52	0 37	5 44	2 48
G	3 S. af. Eaſter	4 39	7 21	14 45	13 37	1 12	6 31	2 56
30		4 37	7 23	15 4	10 44	1 43	7 17	3 5

Days	Day increaſ.	Length of day	Helioc. long. ♄	Helioc. long. ♃	Helioc. long. ♂	Helioc long ⊖	Helioc. long. ♀	Helioc. long. ☿	♄ ſets
1	5 15	12 59	21♈35	25♎32	3♎34	12♎27	21♑12	2♉59	7 a 7
7	5 37	13 21	21 47	25 59	6 17	18 21	0♒41	9♊34	6 49
13	6 1	13 45	21 59	26 27	9 0	24 13	10 10	16♋59	6 31
19	6 23	14 7	22 12	26 54	11 44	0♏5	19 39	20♌41	6 13
25	6 45	14 29	22 24	27 21	14 29	5 55	29 9	18♍49	5 56

Days	Day lig. begins	Day lig. ends	Durat. twilig.	Pl. ☽'s node	♄'s latitude	♃'s latitude	♂'s latitude	♀'s latitude	☿'s latitude
1	3 33	8 27	2 3	3♎ 8	2 s 16	1 n 32	3 n 10	1 s 6	0 s 23
7	3 17	8 43	2 8	2 49	2 16	1 33	2 56	1 18	0 n 43
13	3 2	8 58	2 11	2 30	2 16	1 33	2 40	1 27	1 47
19	2 47	9 13	2 15	2 11	2 16	1 32	2 24	1 34	2 32
25	2 26	9 34	2 25	1 51	2 16	1 32	2 8	1 38	2 45

Days	☉'s longitude	☽'s long.	☽'s latitude	♄'s long.	♃'s long.	♂'s long.	♀'s long.	☿'s long.
G	♈ 12 27 28	2♌49	4 s 36	20♈42	28♎26	20♍14	9♓33	17♈24
2	13 26 29	15 3	3 57	20 49	28 19	19 56	10 45	19 29
3	14 25 27	27 33	3 6	20 57	28 12	19 39	11 58	21 33
4	15 24 24	10♍22	2 5	21 4	28 5	19 22	13 10	23 30
5	16 23 18	23 31	0 55	21 12	27 57	19 6	14 23	25 38
6	17 22 10	7♎ 1	0 n 20	21 19	27 50	18 50	15 35	27 40
7	18 21 0	20 50	1 35	21 27	27 42	18 34	16 48	29 41
G	19 19 47	4♏57	2 45	21 34	27 35	18 19	18 1	1♉39
9	20 18 32	19 17	3 47	21 42	27 27	18 5	19 13	3 35
10	21 17 16	3♐44	4 34	21 49	27 20	17 52	20 26	5 29
11	22 15 59	18 12	5 4	21 57	27 12	17 40	21 39	7 20
12	23 14 40	2♑38	5 15	22 4	27 5	17 29	22 51	9 7
13	24 13 20	16 56	5 6	22 12	26 57	17 19	24 4	10 51
14	25 11 58	1♒ 4	4 39	22 20	26 50	17 9	25 17	12 32
G	26 10 34	15 0	3 56	22 27	26 42	17 0	26 29	14 19
16	27 9 9	28 43	2 59	22 35	26 34	16 52	27 42	15 40
17	28 7 42	12♓14	1 54	22 42	26 27	16 45	28 55	17 8
18	29 6 13	25 31	0 43	22 50	26 19	16 38	0♈ 7	18 31
19	♉ 0 4 43	8♈37	0 s 29	22 58	26 11	16 32	1 20	19 49
20	1 3 11	21 29	1 38	23 5	26 4	16 27	2 33	21 3
21	2 1 37	4♉10	2 41	23 13	25 56	16 23	3 46	22 13
G	3 0 1	16 38	3 35	23 20	25 48	16 19	4 58	23 16
23	3 58 23	28 56	4 18	23 28	25 41	16 10	6 11	24 16
24	4 56 43	11♊ 3	4 49	23 35	25 33	16 14	7 24	25 9
25	5 55 2	23 2	5 7	23 43	25 25	16 13	8 37	25 57
26	6 53 18	4♋56	5 11	23 51	25 18	16 D 13	9 50	26 40
27	7 51 33	16 48	5 2	23 58	25 10	16 13	11 3	27 17
28	8 49 45	28 42	4 40	24 6	25 3	16 14	12 15	27 50
G	9 47 56	10♌42	4 6	24 13	24 56	16 16	13 28	28 19
30	10 46 4	22 54	3 20	24 21	24 48	16 19	14 41	28 39

Days	♃ riſes	♂ ſets	♀ riſes	☿ ſets	♄'s declin.	♃'s declin.	♂'s declin.	♀'s declin.	☿'s declin.
1	7 a 47	5 m 22	4 m 42	6 a 56	6 n 0	9 s 30	6 n 48	9 s 1	6 n 29
7	7 21	4 50	4 35	7 46	6 16	9 13	7 13	6 25	12 2
13	6 54	4 31	4 27	8 35	6 33	8 57	7 28	3 42	16 48
19	6 27	4 6	4 18	9 0	6 50	8 41	7 32	0 55	20 9
25	6 0	3 42	4 7	9 24	7 7	8 25	7 24	1 n 55	21 57

The Lunations.

Full Moon	the 6th day,	at 16 minutes paſt	5 afternoon.
Laſt quarter	the 13th day,	at 44 minutes paſt	7 morning.
New Moon	the 20th day,	at 59 minutes paſt	9 night.
Firſt quarter	the 29th day,	at 43 minutes paſt	1 morning.

M D	Sundays & other remark. days	☉ riſes	☉ ſets	☉'s declin.	☽'s declin.	☽ riſes & ſets	☽ South	Clock aft. ☉
1	St. Phil. and Ja.	4 35	7 25	15 n 22	7 n 19	2 m 12	8 a 3	3′ 12″
2		4 34	7 26	15 39	3 28	2 38	8 51	3 19
3	Inven. of Croſs	4 32	7 28	15 57	0 s 41	3 5	9 40	3 26
4		4 30	7 30	16 14	4 55	3 32	10 31	3 32
5		4 28	7 32	16 31	9 2	4 0	11 24	3 37
G	4 Sun. af. Eaſt.	4 27	7 33	16 48	12 43	☾ riſes	morn	3 42
7	[J.Ev.a.P.L.	4 25	7 35	17 4	15 39	8 a 38	0 21	3 46
8		4 23	7 37	17 21	17 36	9 48	1 20	3 50
9		4 22	7 38	17 37	18 20	10 51	2 20	3 53
10		4 20	7 40	17 52	17 49	11 43	3 21	3 56
11		4 19	7 41	18 7	16 9	morn	4 20	3 57
12	Old May Day	4 17	7 43	18 22	13 29	0 27	5 17	3 59
G	5 or Rogat. Su.	4 16	7 44	18 37	10 6	1 4	6 11	4 0
14		4 14	7 46	18 51	6 16	1 34	7 2	4 0
15		4 13	7 47	19 5	2 12	2 1	7 51	3 59
16	Aſcen. H.Thu.	4 11	7 49	19 19	1 n 54	2 28	8 38	3 58
17		4 10	7 50	19 33	5 50	2 55	9 25	3 56
18	Q. Charlott. b.	4 8	7 52	19 46	9 28	3 20	10 11	3 54
19	Dunſt.		7 53	19 58	12 36	3 48	10 57	3 51
G	Sun. af. Aſcen.	4 6	7 54	20 11	15 10	☾ ſets	11 44	3 48
21	Eaſter T. ends Pri. Elizabe. b.	4 4	7 56	20 23	17 1	8 a 16	0 a 31	3 44
22		4 3	7 57	20 34	18 7	9 9	1 19	3 40
23		4 2	7 58	20 46	18 24	9 57	2 7	3 35
24	Oxf. Term e.	4 0	8 0	20 57	17 52	10 38	2 54	3 30
25		3 59	8 1	21 7	16 34	11 14	3 40	3 24
26	Auguſt. [C. T. di.	3 58	8 2	21 18	14 33	11 47	4 26	3 17
G	Whit Sunday Whit Monday	Ven. B.	8 3	21 28	11 54	morn	5 11	3 10
28	W. Tu. K. Cha.	3 56	8 4	21 37	8 42	0 14	5 56	3 3
29	Em. W. [2. re.	3 55	8 5	21 46	5 3	0 40	6 42	2 55
30		3 54	8 6	21 55	1 5	1 5	7 29	2 47
31		3 53	8 7	22 3	3 s 5	1 22	8 17	2 39

Days	Day increaſ.	Length of day	Helioc. long. ♄	Helioc. long. ♃	Helioc. long. ♂	Helioc. long. ⊖	Helioc. long. ♀	Helioc. long. ☿	♄ riſes
1	7 7	14 51	22 ♈ 38	27 ♎ 48	17 ♎ 15	11 ♏ 44	8 ♓ 39	12 ♎ 7	4 m 17
7	7 27	15 11	22 51	28 16	20 2	17 32	18 10	2 ♏ 4	3 55
13	7 45	15 29	23 3	28 43	22 51	23 19	27 42	19 56	3 33
19	8 4	15 47	23 16	29 11	25 41	29 6	7 ♈ 15	6 ♐ 43	3 11
25	8 19	16 3	23 29	29 38	28 32	4 ♐ 51	16 48	23 13	2 49

M D	Day lig. begins	Day lig. ends	Durat. twilig.	Pl. ☽'s node	♄'s latitude	♃'s latitude	♂'s latitude	♀'s latitude	☿'s latitude
1	2 6	9 57	2 37	1 ♎ 32	2 s 16	1 n 31	1 n 53	1 s 39	2 n 20
7	1 44	10 19	2 48	1 13	2 17	1 30	1 38	1 37	1 13
13	1 19	10 45	3 5	0 54	2 17	1 29	1 25	1 33	0 s 24
19	0 48	11 20	3 32	0 35	2 18	1 28	1 12	1 27	2 6
25	All day light.			0 16	2 19	1 27	1 0	1 19	3 20

M D	☉'s longitude	☽'s long.	☽'s latitude	♄'s long.	♃'s long.	♂'s long.	♀'s long.	☿'s long.
1	♉ 11 44 10	5 ♍ 23	2 s 24	24 ♈ 29	24 ♎ 41	16 ♍ 22	15 ♈ 54	28 ♉ 55
2	12 42 14	18 11	1 19	24 36	24 34	16 26	17 7	29 5
3	13 40 16	1 ♎ 24	0 8	24 44	24 27	16 31	18 20	29 10
4	14 38 16	15 2	1 n 6	24 51	24 20	16 36	19 33	29 ℞ 11
5	15 36 15	27 7	2 17	24 58	24 14	16 42	20 46	29 10
G	16 34 12	13 ♏ 34	3 22	25 6	24 7	16 49	21 59	29 0
7	17 32 7	28 18	4 15	25 13	24 1	16 56	23 12	28 43
8	18 30 1	13 ♐ 12	4 51	25 20	23 55	17 4	24 24	28 26
9	19 27 54	28 7	5 7	25 27	23 48	17 13	25 37	28 7
10	20 25 45	12 ♑ 54	5 3	25 34	23 42	17 22	26 50	27 38
11	21 23 35	27 27	4 39	25 41	23 36	17 32	28 3	27 8
12	22 21 24	11 ♒ 42	3 58	25 48	23 30	17 42	29 16	26 37
G	23 19 12	25 36	3 4	25 55	23 24	17 53	0 ♉ 29	26 5
14	24 16 59	9 ♓ 11	2 1	26 2	23 18	18 5	1 41	25 31
15	25 14 45	22 26	0 52	26 9	23 13	18 17	2 54	24 57
16	26 12 30	5 ♈ 26	0 s 17	26 16	23 7	18 30	4 7	24 21
17	27 10 14	18 12	1 25	26 23	23 2	18 43	5 20	23 47
18	28 7 57	0 ♉ 45	2 27	26 30	22 57	18 57	6 33	23 14
19	29 5 39	13 9	3 21	26 37	22 52	19 11	7 46	22 42
G	♊ 0 3 19	25 24	4 5	26 44	22 47	19 26	8 59	22 13
21	1 0 58	7 ♊ 31	4 37	26 50	22 42	19 42	10 12	21 47
22	1 58 36	19 32	4 57	25 57	22 38	19 58	11 25	21 23
23	2 56 13	1 ♋ 28	5 3	27 4	22 33	20 14	12 38	21 3
24	3 53 49	13 20	4 57	27 10	22 29	20 31	13 51	20 46
25	4 51 23	25 11	4 37	27 17	22 25	20 48	15 4	20 32
26	5 48 56	7 ♌ 4	4 6	27 23	22 21	21 6	16 17	20 24
G	6 46 27	19 3	3 23	27 30	22 17	21 24	17 30	20 D 20
28	7 43 57	1 ♍ 13	2 31	27 36	22 14	21 43	18 43	20 21
29	8 41 25	13 38	1 30	27 43	22 10	22 2	19 57	20 29
30	9 38 52	26 23	0 24	27 49	22 6	22 22	21 10	20 38
31	10 36 18	9 ♎ 32	0 n 46	27 56	22 3	22 42	22 23	20 49

M D	♃ ſets	♂ ſets	♀ riſes	☿ ſets	♄'s declin.	♃'s declin.	♂'s declin.	♀'s declin.	☿'s declin.
1	4 m 19	3 m 17	3 m 59	9 a 14	7 n 23	8 s 10	7 n 7	4 n 44	22 n 13
7	3 54	2 53	3 46	8 37	7 30	7 56	6 40	7 31	21 5
3	3 29	2 31	3 36	7 56	7 54	7 43	6 [illegible]	10 12	18 54
9	3 5	2 9	3 27	7 11	8 8	7 32	5 24	12 45	16 26
5	2 41	1 45	3 17	6 23	8 22	7 24	4 34	15 7	14 41

June hath xxx Days. White.

The Lunations.

Full Moon the 5th day, at 7 minutes before 1 morning.
Laſt quarter the 11th day, at 34 minutes paſt 3 afternoon.
New Moon the 19th day, at 43 minutes paſt 12 noon
Firſt quarter the 27th day, at 17 minutes paſt 2 afternoon.

M D	Sundays & other remark. days.	☉ riſes	☉ ſets	☉'s declin.	☽'s declin.	☽ riſes & ſets	☽ South	Clock aft. ☉
1	Nicomede	3 52	8 8	22 n 11	7 s 13	1 m 57	9 a 8	2 30
2		3 51	8 9	22 19	11 7	2 26	10 2	2 20
G	Trinity Sunday	3 50	8 10	22 26	14 27	3 2	11 0	2 11
4	K. Geo. 3 bor 1	3 49	8 11	22 33	16 56	3 43	morn	2 1
5	Pr. Er. Aug. b.	Bonifa.	8 11	22 40	18 16	☽ riſes	0 0	1 51
6	Oxford T. beg.	3 47	8 12	22 46	18 17	9 a 32	1 2	1 40
7	Corpus Chriſt.	3 48	8 13	22 51	17 1	10 20	2 4	1 29
8	Term begins	3 47	8 13	22 57	14 37	11 1	3 4	1 18
9		3 46	8 14	23 1	11 21	11 36	4 1	1 6
G	1 S. aft. Trin.	3 46	8 14	23 6	7 31	morn	4 55	0 5
11	St. Barnabas	3 45	8 15	23 10	3 24	0 4	5 45	0 4
12		3 45	8 15	23 14	0 n 46	0 29	6 33	0 3
13		3 44	8 16	23 17	4 47	0 55	7 20	0 1
14		3 44	8 16	23 20	8 31	1 21	8 6	0
15		3 44	8 16	23 22	11 48	1 48	8 52	0 bef.
16		3 43	8 17	23 24	14 32	2 18	9 38	0 2
G	2 S. aft. Trin.	S. Alb,	8 17	23 26	16 36	2 50	10 25	0 3
18		3 43	8 17	23 27	17 56	3 25	11 12	0 4
19		3 43	8 17	23 28	18 28	☽ ſets	11 59	1
20	Tra. Ed. KWS	3 43	8 17	23 28	18 11	8 a 33	0 a 46	1 1
21	Longeſt day	3 43	8 17	23 28	17 7	9 12	1 33	1 2
22		3 43	8 17	23 27	15 18	9 45	2 19	1 3
23		3 43	8 17	23 27	12 51	10 14	3 4	1 5
G	3 S. aft. Trin.	Midſ.	8 17	23 25	9 49	10 40	3 48	2
25	†Nat. J. Bap.	3 43	8 17	23 23	6 20	11 7	4 33	2
26		3 44	8 16	23 21	2 31	11 31	5 18	2
27	Trin. T. ends	3 44	8 16	23 19	1 s 30	11 57	6 4	2
28		3 44	8 16	23 16	5 34	morn	6 52	2
29	St. Peter	3 45	8 15	23 12	9 29	0 21	7 43	3
30		3 45	8 15	23 9	13 1	0 52	8 38	3

M D	Day increaſ.	Length of day	Helioc. long. ♄	Helioc. long. ♃	Helioc. long. ♂	Helioc. long. ⊖	Helioc. long. ♀	Helioc. long. ☿	♄ ri
1	8 33	16 7	23♈43	0♏10	1♏53	11♐34	27♈59	13♑7	2m
7	8 42	16 26	23 56	0 38	4 47	17 18	7♉35	1♒38	1
13	8 46	16 30	24 9	1 5	7 43	23 2	17 11	22 39	1
19	8 50	16 34	24 21	1 32	10 40	28 45	26 49	17♓5	1
35	cdeca	16 32	24 34	2 0	13 39	4♑29	6♊28	16♈27	0

M D	Day lig. begins	Day lig. ends	Durat. twilig.	Pl, ☾'s node	♄'s latitude	♃'s latitude	♂'s latitude	♀'s latitude	☿'s latitude
1	All	day	light	29♍54	2 s 20	1 n 25	0 n 48	1 s 6	3 s 56
7				29 35	2 21	1 23	0 37	0 54	3 47
13				29 16	2 22	1 22	0 28	0 41	3 9
19				28 57	2 23	1 20	0 19	0 27	2 11
25				28 38	2 24	1 18	0 11	0 13	1 1

M D	☉'s longitude	☽'s long.	☽'s latitude	♄'s long.	♃'s long.	♂'s long.	♀'s long.	☿'s long.
1	♊11 33 43	23♎10	1 n 56	28♈ 2	22♎ 0	23♍ 2	23♉36	21♉ 8
2	12 31 7	7♏17	3 0	28 28	21 57	23 23	24 49	21 26
G	13 28 29	21 52	3 56	28 15	21 55	23 44	26 2	21 53
4	14 25 50	6♐49	4 36	28 21	21 52	24 5	27 15	22 28
5	15 23 11	22 0	4 58	28 27	21 50	24 27	28 29	23 5
6	16 20 31	7♑15	4 59	28 33	21 48	24 49	29 42	23 44
7	17 17 50	22 22	4 39	28 38	21 46	25 12	0♊55	24 27
8	18 15 9	7♒12	4 0	28 44	21 44	25 35	2 8	25 15
9	19 12 28	21 40	3 7	28 50	21 43	25 58	3 21	26 7
G	20 9 46	5♓41	2 4	28 55	21 41	26 22	4 35	27 1
11	21 7 4	19 17	0 55	29 1	21 40	26 46	5 48	27 59
12	22 4 21	2♈28	0 s 14	29 7	21 39	27 10	7 1	29 2
13	23 1 38	15 20	1 21	29 12	21 38	27 35	8 14	0♊ 9
14	23 58 55	27 54	2 23	29 18	21 37	28 0	9 27	1 19
15	24 56 12	10♉16	3 16	29 23	21 37	28 25	10 41	2 32
16	25 53 29	22 28	4 0	29 28	21 36	28 51	11 54	3 48
G	26 50 45	4♊32	4 32	29 34	21D 36	29 17	13 7	5 8
18	27 48 1	16 31	4 52	29 39	21 36	29 43	14 20	6 31
19	28 45 17	28 26	4 59	29 44	21 37	0♎ 9	15 34	7 58
20	29 42 32	10♋18	4 53	29 49	21 37	0 36	16 47	9 28
21	♋ 0 39 47	22 10	4 35	29 54	21 38	1 3	18 0	11 1
22	1 37 2	4♌ 2	4 4	29 59	21 39	1 30	19 14	12 37
23	2 34 16	15 57	3 23	0♉ 4	21 40	1 58	20 27	14 16
G	3 31 30	27 58	2 32	0 8	21 41	2 26	21 40	15 58
25	4 28 43	10♍ 8	1 33	0 13	21 42	2 54	22 54	17 45
26	5 25 55	22 32	0 29	0 18	21 44	3 23	24 7	19 34
27	6 23 7	5♎15	0 n 38	0 22	21 45	3 52	25 21	21 25
28	7 20 19	18 20	1 45	0 27	21 47	4 21	26 34	23 19
29	8 17 30	1♏52	2 49	0 31	21 49	4 50	27 48	25 15
30	9 14 41	15 53	3 45	0 36	21 51	5 19	29 1	27 14

M D	♃ sets	♂ sets	♀ rises	☿ rises	♄'s declin.	♃'s declin.	♂'s declin.	♀'s declin.	☿'s declin.
1	2m 11	1 m18	3 m 8	3 m20	8 n 37	7 s 16	3 n 30	17 n 57	14 n 15
7	1 46	0 56	3 2	3 4	8 49	7 12	2 29	19 29	15 14
13	1 21	0 35	2 58	2 51	9 0	7 11	1 23	21 2	17 8
19	0 56	0 13	2 55	2 45	9 10	7 12	0 s 14	22 14	19 31
25	0 31	11 a 48	2 56	2 41	9 19	7 15	0 59	23 4	21 53

July hath xxxi Days. White.

The Lunations.

Full Moon the 4th day, at 23 minutes paſt 7 morning.
Laſt quarter the 11th day, at 46 minutes paſt 1 morning.
New Moon the 19th day, at 41 minutes paſt 3 morning.
Firſt quarter the 26th day, at 58 minutes paſt 11 night.

M D	Sundays & other remark. days	☉ riſes	☉ ſets	☉'s declin.	☽'s declin.	☽ riſes & ſets	☽ South	Clock bef. ☉
G	4 S. aft. Trin.	3 46	8 14	23 n 5	15 s 53	1 m 29	9 a 36	3 29
2	Viſit. of B.V.M.	3 46	8 14	23 0	17 46	2 14	10 36	3 40
3	Cam. Com.	D. d. b	8 13	22 55	18 27	3 6	11 39	3 51
4	Trans. St. Mar.	3 48	8 12	22 50	17 47	☽ riſes	morn	4 2
5	Old Midſum.	3 48	8 12	22 44	15 51	8 a 50	0 41	4 12
6	Camb. Ter. ends	3 49	8 11	22 38	12 52	9 28	1 41	4 22
7	Thos. a Becket	3 50	8 10	22 31	9 7	10 1	2 38	4 31
G	5 S. aft. Trin.	3 50	8 10	22 24	4 58	10 29	3 32	4 40
9	Oxford Act	3 51	8 9	22 17	0 41	10 56	4 23	4 49
10		3 52	8 8	22 9	3 n 30	11 23	5 12	4 57
11		3 53	8 7	22 1	7 23	11 49	5 59	5 5
12		3 54	8 6	21 53	10 51	morn	6 45	5 13
13		3 55	8 5	21 44	13 46	0 16	7 31	5 20
14	Oxf. T. ends	3 56	8 4	21 34	16 1	0 48	8 17	5 26
G	6 S. aft. Trin.	Swith.	8 3	21 25	17 34	1 22	9 4	5 32
16		3 58	8 2	21 15	18 20	2 3	9 51	5 38
17		4 0	8 0	21 5	18 18	2 50	10 39	5 43
18		4 1	7 59	20 54	17 28	3 40	11 26	5 48
19		4 2	7 58	20 43	15 53	☽ ſets	0 a 12	5 52
20	Margaret	4 3	7 57	20 32	13 36	8 a 14	0 58	5 56
21		4 5	7 55	20 20	10 43	8 43	1 44	5 59
G	7. S. aft. Trin.	4 6	7 54	20 8	7 21	9 9	2 29	6 1
23	[Magdalen	4 7	7 53	19 55	3 39	9 34	3 13	6 3
24		4 9	7 51	19 43	0 s 17	9 57	3 58	6 4
25	St. James	4 10	7 50	19 30	4 16	10 22	4 44	6 4
26	S. Anne	4 11	7 49	19 16	8 9	10 52	5 33	6 4
27		4 13	7 47	19 3	11 45	11 24	6 25	6 4
28		4 14	7 46	18 49	14 47	morn	7 20	6 2
G	8 S. aft. Trin.	4 16	7 44	18 34	17 1	0 3	8 17	6 0
30		4 17	7 43	18 20	18 13	0 50	9 17	5 58
31		4 18	7 41	18 5	18 10	1 44	10 19	5 55

M D	Day decreaſ.	Length of day	Helioc. long. ♄	Helioc. long. ♃	Helioc. long. ♂	Helioc. long. ⊖	Helioc. long. ♀	Helioc. long. ☿	♄ riſes
1	0 4	16 30	24 ♈ 47	2 ♏ 27	16 ♏ 40	10 ♑ 12	16 ♊ 8	21 ♉ 3	0 m 22
7	0 12	16 22	24 50	2 55	19 43	15 55	25 50	28 ♊ 41	11 a 58
13	0 24	16 10	25 12	3 22	22 47	21 38	5 ♋ 32	4 ♌ 42	11 34
19	0 38	15 56	25 25	3 50	25 53	27 22	15 15	5 ♍ 36	11 10
25	0 54	15 40	25 38	4 18	29 1	3 ♒ 0	24 59	1 ♎ 8	10 45

July.

M D	Day lig. begins	Day lig. ends	Durat. twilig.	Pl. ☽'s node	♄'s latitude	♃'s latitude	♂'s latitude	♀'s latitude	☿'s latitude
1				28♍19	2 s 25	1 n 17	0 n 3	0 n 2	0 n 10
7	All	day-	light	27 59	2 27	1 15	0 s 4	0 16	1 7
13				27 40	2 28	1 14	0 10	0 30	1 41
19				27 21	2 30	1 12	0 17	0 43	1 48
25	0 45	11 7	3 20	27 2	2 31	1 11	0 23	0 55	1 32

M D	☉'s longitude	☽'s long.	☽'s latitude	♄'s long.	♃'s long.	♂'s long.	♀'s long.	☿'s long.
G	♋10 11 52	0♂22	4 n 28	0♉40	21♎54	5♎48	0♋15	29♊17
2	11 9 2	15 17	4 55	0 44	21 56	6 18	1 28	1♋19
3	12 6 12	0♑29	5 1	0 48	21 59	6 48	2 42	3 24
4	13 3 22	15 49	4 46	0 52	22 2	7 18	3 55	5 31
5	14 0 32	1♒6	4 11	0 56	22 5	7 48	5 9	7 39
6	14 57 43	16 7	3 19	1 0	22 8	8 19	6 22	9 47
7	15 54 54	0♓46	2 14	1 3	22 11	8 50	7 36	11 56
G	16 52 6	14 57	1 3	1 7	22 15	9 21	8 49	14 5
9	17 49 18	28 39	0 s 9	1 10	22 18	9 52	10 3	16 14
10	18 46 30	11♈55	1 19	1 14	22 22	10 24	11 17	18 24
11	19 43 43	24 46	2 22	1 17	22 26	10 56	12 30	20 33
12	20 40 57	7♉18	3 17	1 21	22 30	11 28	13 44	22 41
13	21 38 12	19 35	4 2	1 24	22 35	12 0	14 58	24 48
14	22 35 27	1♊41	4 35	1 27	22 39	12 32	16 11	26 54
G	23 32 43	13 39	4 56	1 30	22 44	13 4	17 25	28 59
16	24 30 0	25 33	5 3	1 33	22 49	13 37	18 39	1♌1
17	25 27 17	7♋24	4 58	1 36	22 54	14 10	19 53	3 2
18	26 24 35	19 16	4 39	1 39	22 59	14 43	21 7	5 3
19	27 21 54	1♌9	4 9	1 41	23 4	15 16	22 21	7 2
20	28 19 13	13 6	3 27	1 44	23 10	15 50	23 35	8 59
21	29 16 33	25 7	2 36	1 46	23 15	16 24	24 49	10 53
G	♌0 13 53	7♍15	1 37	1 48	23 21	16 58	26 3	12 48
23	1 11 14	19 33	0 32	1 50	23 27	17 32	27 17	14 41
24	2 8 35	2♎2	0 n 35	1 52	23 33	18 6	28 31	16 31
25	3 5 56	14 48	1 42	1 54	23 40	18 40	29 45	18 19
26	4 3 18	27 52	2 45	1 55	23 46	19 14	0♌59	20 7
27	5 0 40	11♏20	3 41	1 57	23 53	19 48	1 13	21 52
28	5 58 3	25 12	4 26	1 59	23 59	20 23	2 26	23 35
G	6 55 26	9♐30	4 56	2 1	24 6	20 58	3 40	25 15
30	7 52 50	24 11	5 8	2 2	24 12	21 33	4 54	26 55
31	8 50 15	9♑10	4 59	2 4	24 19	22 8	6 8	28 35

M D	♃ ſets	♂ ſets	♀ riſes	☿ ſets	♄'s declin.	♃'s declin.	♂'s declin.	♀'s declin.	☿'s declin.
1	11 a 58	11 a 27	3 m 0	7 a 31	9 n 27	7 s 21	2 s 15	23 n 30	23 n 37
7	11 35	11 7	3 7	8 4	9 34	7 29	3 34	23 31	24 3
13	11 13	10 48	3 18	8 28	9 39	7 39	4 55	23 7	22 51
19	10 51	10 28	3 31	8 37	9 44	7 52	6 17	22 19	20 16
25	10 29	10 9	3 47	8 38	9 47	8 6	7 40	21 7	16 49

Auguſt hath xxxi Days.

The Lunations.

Full Moon the 2d day, at 11 minutes paſt 2 afternoon.
Laſt quarter the 9th day, at 55 minutes paſt 2 afternoon.
New Moon the 17th day, at 41 minutes paſt 6 afternoon.
Firſt quarter the 25th day, at 26 minutes paſt 7 morning.
Full Moon the 31ſt day, at 29 minutes paſt 10 night.

M D	Sundays & other remark. days	☉ riſes	☉ ſets	☉'s declin.	☽'s declin.	☽ riſes & ſets	☽ South	Clock bef. ☉
1	Lammas Day	4 20	7 40	17 n 49	16 s 51	2m 53	11 20	5 51
2		4 22	7 38	17 34	14 21	☽ riſes	morn	5 47
3		4 24	7 36	17 18	10 54	7 a 57	0 19	5 42
4		4 25	7 35	17 2	6 51	8 28	1 16	5 36
G	9 S. aft. Trin.	4 27	7 33	16 46	2 30	8 57	2 10	5 30
6	Transfiguration	4 28	7 32	16 29	1 n 51	9 26	3 2	5 23
7	Prs. Amelia b.	4 30	7 30	16 12	5 58	9 53	3 52	5 16
8	[Nat. of Jes.	4 32	7 28	15 55	9 39	10 20	4 40	5 8
9		4 34	7 26	15 37	12 48	10 51	5 27	5 0
10	St. Laurence	4 35	7 25	15 20	15 17	11 24	6 14	[illegible] 51
11	Prs. Brun. b.	Dogd. e.	7 23	15 2	17 4	morn	7 1	4 41
G	10 S. aft. Tri.	P. W. b.	O. Lam	14 44	18 4	0 2	7 48	4 31
13		4 41	7 19	14 25	18 17	0 46	8 36	4 21
14		4 42	7 18	14 7	17 41	1 35	9 24	4 10
15	Aſſumption	4 44	7 16	13 48	16 19	2 30	10 11	3 58
16	D. York. b.	4 46	7 14	13 29	14 15	3 28	10 58	3 46
17		4 48	7 12	13 10	11 32	☽ ſets	11 44	3 33
18		4 50	7 10	12 50	8 17	7 a 16	0 a 29	3 20
G	11 S. af. Trin.	4 51	7 9	12 30	4 38	7 41	1 14	3 7
20		4 53	7 7	12 10	0 45	8 6	2 0	2 52
21	D. Clarence b.	4 55	7 5	11 50	3 s 14	8 31	2 47	2 38
22		4 57	7 3	11 30	7 9	9 0	3 35	2 23
23		4 59	7 1	11 10	10 46	9 30	4 25	2 7
24	St. Bartholom.	5 1	6 59	10 49	13 54	10 5	5 17	1 52
25		5 2	6 58	10 28	16 20	10 49	6 12	1 35
G	12 S. af. Trin.	5 4	6 56	10 7	17 49	11 41	7 10	1 18
27		5 6	6 54	9 46	18 14	morn	8 9	1 1
28	St. Auguſtine	5 8	6 52	9 25	17 26	0 41	9 9	0 44
29		5 10	6 50	9 3	15 28	1 51	10 8	0 26
30		5 12	6 48	8 42	12 28	3 5	11 5	0 8
31		5 14	6 46	8 20	8 42	4 24	morn	0 af 11

M D	Day decreaſ.	Length of day	Helioc. long. ♄	Helioc. long. ♃	Helioc. long. ♂	Helioc. long. ⊖	Helioc. long. ♀	Helioc. long. ☿	♄ riſes
1	1 11	15 21	25 ♈ 52	4 ♏ 49	2 ♏ 43	9 ♒ 48	6 ♌ 22	25 ♎ 50	10 a 18
7	1 31	15 3	26 5	5 17	5 56	15 33	16 7	14 ♏ 16	9 55
13	1 51	14 43	26 18	5 44	9 10	21 18	25 53	1 ♐ 18	9 33
19	2 13	14 21	26 30	6 11	12 26	27 5	5 ♍ 38	17 48	9 11
25	2 35	13 50	26 43	6 39	15 4	2 ♓ 52	15 23	4 ♑ 32	8 49

Auguſt.

M D	Day lig. begins	Day lig. ends	Durat. twilig.	Pl. ☾' node	♄'s latitude	♃'s latitude	♂'s latitude	♀'s latitude	☿' latitude
1	1 23	10 34	2 58	26♍40	2 s 33	1 n 9	0 s 29	1 n 6	0 n 52
7	1 47	10 13	2 46	26 21	2 35	1 8	0 34	1 14	0 5
13	2 9	9 51	2 34	26 2	2 36	1 6	0 39	1 20	0 s 50
19	2 29	9 31	2 25	25 43	2 38	1 5	0 44	1 24	1 49
25	2 47	9 13	2 18	25 24	2 39	1 4	0 48	1 25	2 48

M D	☉'s longitude	☽'s long.	☽'s latitude	♄'s long.	♃'s long.	♂'s long.	♀'s long.	☿'s long.
1	♌ 9 47 40	24♑19	4 n 29	2 ♉ 5	24♎26	22♎43	8♌22	0♍12
2	10 45 6	9♒28	3 41	2 6	24 33	23 19	9 36	1 48
3	11 42 33	24 27	2 38	2 7	24 41	23 55	10 50	3 22
4	12 40 1	9♓ 8	1 25	2 8	24 48	24 31	12 4	4 53
G	13 37 31	23 24	0 8	2 9	24 56	25 7	13 19	6 22
6	14 35 2	7♈12	1 s 6	2 10	25 4	25 43	14 33	7 52
7	15 32 34	20 34	2 15	2 11	25 12	26 20	15 47	9 19
8	16 30 7	3♉30	3 14	2 11	25 20	26 56	17 1	10 44
9	17 27 42	16 5	4 3	2 12	25 28	27 33	18 15	12 6
10	18 25 19	28 22	4 39	2 12	25 36	28 9	19 29	13 29
11	19 22 57	10♊27	5 1	2 13	25 44	28 46	20 44	14 50
G	20 20 37	22 24	5 11	2 13	25 53	29 23	21 58	16 8
13	21 18 18	4♋16	5 7	2R 13	26 1	0♏ 0	23 12	17 24
24	22 16 1	16 7	4 50	2 13	26 10	0 37	24 26	18 39
15	23 13 45	28 0	4 21	2 13	26 19	1 15	25 41	19 51
16	24 11 31	9♌58	3 39	2 12	26 28	1 52	26 55	21 1
17	25 9 19	22 2	2 48	1 12	26 37	2 30	28 9	22 8
18	26 7 8	4♍14	1 48	2 11	26 46	3 8	29 24	23 14
G	27 4 58	16 35	0 43	2 11	86 55	3 46	0♍38	24 18
20	28 2 49	29 6	0 n 26	2 10	27 4	4 24	1 52	25 19
21	29 0 42	11♎50	1 34	2 10	27 14	5 2	3 7	26 17
22	29 58 36	24 47	2 30	2 9	27 23	5 41	4 21	27 13
23	♏ 0 56 31	8♏ 0	3 37	2 8	27 33	6 19	5 35	28 6
24	1 54 28	21 31	4 25	2 7	27 43	6 57	6 50	28 55
25	2 50 26	5♐20	4 58	2 5	27 53	7 36	8 4	29 42
G	3 50 25	19 27	5 14	2 4	28 3	8 15	9 18	0♎26
27	4 48 25	3♑51	5 11	2 2	28 13	8 54	10 32	1 5
28	5 46 26	18 29	4 48	2 1	28 23	9 33	11 47	1 39
29	6 44 29	3♒15	4 6	1 59	28 34	10 12	13 1	2 10
30	7 42 33	18 3	3 7	1 58	28 44	10 51	14 15	2 37
31	8 40 39	2♓45	1 56	1 56	28 55	11 30	15 30	2 59

M D	♃ ſets	♂ ſets	♀ ſets	☿ ſets	♄'s declin.	♃'s declin.	♂'s declin.	♀'s declin.	☿'s declin.
1	10 a 2	9 a 50	7 a 44	7 a 34	9 n 49	8 s 23	9 s 18	19 n 15	12 n 13
7	9 41	9 33	7 38	7 36	9 49	8 42	10 42	17 18	8 10
13	9 20	9 16	7 32	7 39	9 49	9 2	12 6	15 3	4 13
19	8 59	9 0	7 25	7 33	9 46	9 23	13 28	12 34	0 36
25	8 39	8 45	7 15	7 24	9 43	9 44	14 49	9 52	2 s 27

September hath xxx Days.

The Lunations.

Laſt quarter the 8th day, at 9 minutes paſt 7 morning.
New Moon the 16th day, at 18 minutes paſt 9 morning.
Firſt quarter the 23d day, at 48 minutes paſt 1 afternoon.
Full Moon the 30th day, at 6 minutes paſt 9 morning.

M D	Sundays & other remark. days	☉ riſes	☉ ſets	☉'s declin.	☽'s declin.	☽ riſes & ſets	☽ South	Clock aft. ☉
1	Giles	5 1[illegible]	6 44	7 n 58	4 s 27	☾ riſes	0 m 0	0 30
G	13 S. aft. Trin.	Lon. b	6 42	7 36	0 3	7 a 30	0 54	0 49
3		5 20	6 40	7 14	4 n 15	7 58	1 46	1 8
4		5 22	6 38	6 52	8 12	8 26	2 36	1 28
5		5 2[illegible]	6 37	6 29	11 37	8 57	3 25	1 48
6		5 2[illegible]	6 35	6 7	14 25	9 30	4 14	2 8
7	Enurchus	5 27	6 33	5 44	16 28	10 8	5 2	2 28
8	Nativ. of V. M.	5 29	6 31	5 22	17 44	10 51	5 51	2 49
G	14 S. aft. Trin.	5 31	6 29	4 59	18 12	11 38	6 39	3 9
10		5 33	6 27	4 36	17 5[illegible]	morn	7 26	3 30
11		5 35	6 25	4 13	16 46	0 30	8 14	3 50
12		5 37	6 23	3 50	14 55	1 26	9 0	4 11
13		5 39	6 21	3 27	12 23	2 26	9 47	4 32
14		5 41	6 19	3 4	9 18	3 28	10 33	4 53
15	☉ eclipſed inv.	5 4	6 17	2 41	5 44	4 33	11 19	5 14
G	15 S. aft. Trin.	5 45	6 15	2 18	1 52	☾ ſets	0 a 5	5 35
17	Lambert	5 47	6 13	1 55	2 s 9	6 a 44	0 52	5 56
18		5 49	6 11	1 31	6 9	7 12	1 41	6 16
19	Ember Week	5 51	6 9	1 8	9 54	7 42	2 31	6 37
20		5 53	6 7	0 45	13 12	8 16	3 23	6 58
21	St. Matt.	5 55	6 5	0 21	15 48	8 57	4 17	7 19
22	K. Geo. 3 Cro.	5 57	6 3	0 s 2	17 31	9 44	5 13	7 40
G	16 S. aft. Trin.	5 59	6 1	0 26	18 12	10 42	6 11	8 0
24		6 1	5 59	0 49	17 45	11 45	7 9	8 21
25	Holy Croſs	6 3	5 57	1 13	16 10	morn	8 7	8 41
26	St. Cyprian	6 4	5 56	1 36	13 35	0 57	9 3	9 1
27		6 6	5 54	1 59	10 10	2 11	9 58	9 21
28		6 8	5 52	2 23	6 9	3 28	10 51	9 41
29	St. Micha. Prs.	Roy: b	5 50	2 46	1 50	4 43	11 42	10 0
G	17 S. aft. Trin.	St. Jer.	5 48	3 10	2 n 30	5 59	morn	10 19

M D	Day decreaſ.	Length of day	Helioc. long. ♄	Helioc. long. ♃	Helioc. long. ♂	Helioc. long. ⊖	Helioc. long. ♀	Helioc. long. ☿	♄ riſes
1	3 1	13 33	26♈58	7♏11	19♏39	9♓3[illegible]	26♍44	25♑21	8 a 22
7	3 25	13 9	27 11	7 38	23 2	15 28	6♎26	15♒21	8 0
13	3 49	12 45	27 23	8 6	26 27	21 19	16 8	8♓32	7 38
19	4 11	12 23	27 36	8 33	29 54	27 11	25 47	6♈12	7 10
25	4 35	11 59	27 49	9 1	3♑23	3♈4	5♏25	9♉9	6 55

M D	Day lig. begins	Day lig ends.	Durat. twilig.	Pl. ☽'s node	♄'s latitude	♃'s latitude	♂'s latitude	♀'s latitude	☿'s latitude
1	3 7	8 53	2 11	25 2	2 s 41	1 n 3	0 s 52	1 n 24	3 s 46
7	3 24	8 36	2 6	24 43	2 42	1 2	0 56	1 20	4 12
13	3 37	8 23	2 4	24 23	2 44	1 1	0 59	1 14	3 48
19	3 52	8 8	2 1	24 4	2 45	1 0	1 2	1 5	2 19
25	4 5	7 55	2 0	23 45	2 46	0 59	1 5	0 56	0 20

M D	☉'s longitude	☽'s long.	☽'s latitude	♄'s long.	♃'s long.	♂'s long.	♀'s long.	☿'s long.
1	♍ 9 38 46	17 ♓ 14	0 n 39	1 ♉ 54	29 ♎ 5	12 ♏ 9	16 ♍ 44	3 ♎ 16
G	10 36 55	1 ♈ 24	0 s 39	1 52	29 16	12 49	17 58	3 28
3	11 35 6	15 11	1 53	1 50	29 26	13 28	19 13	3 R 34
4	12 33 19	28 35	2 59	1 47	29 37	14 8	20 27	3 33
5	13 31 34	11 ♉ 35	3 53	1 45	29 47	14 48	21 42	3 27
6	14 29 51	24 13	4 34	1 43	29 58	15 28	22 56	3 14
7	15 28 11	6 ♊ 34	5 2	1 40	0 ♏ 9	16 8	24 11	2 54
8	16 26 32	18 41	5 15	1 37	0 20	16 48	25 25	2 29
G	17 24 56	0 ♋ 38	5 15	1 35	0 31	17 29	26 40	1 57
10	18 23 21	12 30	5 1	1 32	0 42	18 9	27 54	1 16
11	19 21 49	24 22	4 35	1 29	0 53	18 50	29 9	0 30
12	20 20 20	6 ♌ 18	3 56	1 26	1 4	19 30	0 ♎ 23	29 ♍ 40
13	21 18 52	18 20	3 7	1 23	1 16	20 11	1 38	28 45
14	22 17 26	0 ♍ 32	2 8	1 20	1 27	20 52	2 53	27 46
15	23 16 3	12 57	1 3	1 17	1 39	21 33	4 7	26 43
G	24 14 41	25 34	0 n 7	1 14	1 50	22 14	5 22	25 39
17	25 13 22	8 ♎ 25	1 17	1 10	2 2	22 55	6 36	24 36
18	26 12 4	21 31	2 25	1 7	2 13	23 37	7 51	23 33
19	27 10 48	4 ♏ 50	3 26	1 4	2 25	24 18	9 6	22 33
20	28 9 34	18 22	4 17	1 1	2 37	24 59	10 20	21 38
21	29 8 22	2 ♐ 6	4 54	0 57	2 49	25 41	11 35	20 50
22	♎ 0 7 11	16 2	5 14	0 53	3 1	26 22	12 49	20 8
G	1 6 2	0 ♑ 7	5 15	0 49	3 13	27 4	14 4	19 36
24	2 4 55	14 19	4 58	0 45	3 25	27 46	15 18	19 13
25	3 3 49	28 38	4 22	0 41	3 37	28 28	16 33	19 0
26	4 2 45	12 ♒ 59	3 30	0 37	3 49	29 10	17 47	18 D 56
27	5 1 43	27 19	2 24	0 33	4 2	29 52	19 2	19 3
28	6 0 42	11 ♓ 33	1 10	0 28	4 14	0 ♐ 34	20 17	19 20
29	6 59 44	25 39	0 s 7	0 24	4 26	1 17	21 31	19 47
G	7 58 47	9 ♈ 31	1 23	0 20	4 38	1 59	22 46	20 24

M D	♃ ſets	♂ ſets	♀ ſets	☿ ſets	♄'s declin.	♃'s declin.	♂'s declin.	♀'s declin.	☿'s declin.
1	8 a 14	8 a 30	7 a 4	7 a 0	9 n 38	10 s 11	16 s 20	6 n 32	4 s 45
7	7 54	8 17	6 55	6 33	9 32	10 34	17 35	3 32	5 0
13	7 35	8 5	6 45	6 9	9 25	10 59	18 46	0 29	2 35
19	7 16	7 53	6 35	5 49	9 17	11 23	19 53	2 s 36	0 n 50
25	6 57	7 41	6 25	5 31	9 8	11 48	20 54	5 39	4 3

October hath xxxi Days. White.

The Lunations.

Laſt quarter the 8th day, at 5 minutes paſt 2 morning.
New Moon the 15th day, at 56 minutes paſt 10 night.
Firſt quarter the 22d day, at 12 minutes paſt 8 night.
Full Moon the 29th day, at 23 minutes paſt 10 night.

M D	Sundays & other remark. days	☉ riſes	☉ ſets	☉'s declin.	☽'s declin.	☽ riſes & ſets	☽ South	Clock aft. ☉
1	Remigius	6 14	5 46	3 s 33	6 n 38	☽ riſes	0m 33	10 38
2		6 16	5 44	3 56	10 29	7 a 4	1 23	10 57
3		6 18	5 42	4 20	13 26	7 37	2 13	11 15
4		6 20	5 40	4 43	15 49	8 13	3 2	11 33
5		6 22	5 38	5 6	17 25	8 53	3 51	11 51
6	Faith	6 24	5 36	5 29	18 11	9 38	4 40	12 8
G	18 S. aft. Trin.	6 26	5 34	5 52	18 7	10 29	5 28	12 24
8		6 28	5 32	6 15	17 15	11 23	6 16	12 41
9	St. Denys	6 30	5 30	6 38	15 39	morn	7 3	12 56
10	Ox & Cam. T. b	O. Mic	5 28	7 0	13 22	0 22	7 49	13 12
11		6 34	5 26	7 23	10 28	1 23	8 35	13 27
12		6 36	5 24	7 46	7 3	2 27	9 20	13 41
13	Tr. K. Edward	6 38	5 22	8 8	3 16	3 33	10 6	13 55
G	19 S. aft. Trin.	6 40	5 20	8 30	0 s 46	4 42	10 53	14 8
15		6 42	5 18	8 53	4 52	☽ ſets	11 41	14 20
16		6 44	5 16	9 15	8 48	5 a 50	0 a 31	14 32
17	Etheldred.	6 45	5 15	9 37	12 22	6 24	1 24	14 44
18	St. Luke	6 47	5 13	9 58	15 15	7 3	2 19	14 54
19		6 49	5 11	10 20	17 16	7 49	3 15	15 5
20		6 51	5 9	10 42	18 15	8 43	4 13	15 14
G	20 S. aft. Trin.	6 53	5 7	11 3	18 4	9 45	5 11	15 23
22		6 55	5 5	11 24	16 44	10 52	6 9	15 32
23		6 57	5 3	11 45	14 24	morn	7 4	15 39
24		6 59	5 1	12 6	11 13	0 5	7 58	15 46
25	K. Geo. 3 Ac.	Criſpin	4 59	12 27	7 26	1 19	8 50	15 52
26	K. Geo. 3 Pro.	7 3	4 57	12 47	3 17	2 34	9 41	15 58
27		7 4	4 56	13 7	1 n 1	3 48	10 30	16 3
G	21 S. af. T. St. S. &		4 54	13 27	5 12	5 2	11 19	16 7
29		7 8	4 52	13 47	9 4	☽ riſes	morn	16 10
30		7 10	4 50	14 7	12 20	5 a 38	0 8	16 13
31		7 12	4 48	14 20	15 6	6 11	0 57	16 14

M D	Day decreaſ.	Length of day	Helioc. long. ♄	Helioc. long. ♃	Helioc. long. ♂	Helioc. long. ⊖	Helioc. long. ♀	Helioc. long. ☿	♄ riſes
1	4 59	11 35	28 ♈ 2	9 ♌ 29	6 ♑ 54	8 ♈ 58	15 ♏ 1	16 ♊ 13	6 a 33
7	5 23	11 10	28 14	9 56	10 27	14 53	24 36	23 ♋ 16	6 10
13	5 45	10 48	28 27	10 24	14 1	20 50	4 ♐ 9	26 ♌ 2	5 47
19	6 9	10 24	28 40	10 51	17 38	26 48	13 41	23 ♍ 13	5 24
25	6 31	10 2	28 53	11 19	21 16	2 ♉ 47	23 12	15 ♎ 0	5 0

M D	Daylig. begins	Daylig. ends	Durat. twilig.	Pl. ☽'s node	♄'s latitude	♃'s latitude	♂'s latitude	♀'s latitude	☿'s latitude
1	4 18	7 42	1 59	23♍26	2 s 46	0 n 59	1 7	0 n 45	1 n 11
7	4 31	7 29	1 58	23 7	2 47	0 58	1 10	0 31	1 53
13	4 43	7 17	1 57	22 48	2 47	0 58	1 11	0 17	1 57
19	4 55	7 5	1 57	22 29	2 47	0 57	1 13	0 2	1 36
25	5 6	6 54	1 58	22 10	2 47	0 57	1 14	0 s 14	1 3

M D	☉'sd longitue.			☽'s long.	☽'s latitude	♄'s long.	♃'s long.	♂'s long.	♀'s long.	☿'s long.
1	♎ 8	57	53	23♈ 7	2 s 33	0♉16	4♏51	2♐42	24♎ 1	21♍ 9
2	9	57	0	6♉25	3 32	0 12	5 4	3 25	25 15	22 3
3	10	56	10	19 22	4 19	0 7	5 16	4 7	26 30	23 4
4	11	55	22	2♊ 1	5 52	0 3	5 29	4 50	27 44	24 12
5	12	54	36	14 23	5 11	29♈58	5 41	5 33	28 58	25 25
6	13	53	53	26 32	5 15	29 54	5 54	6 15	0♏13	26 44
G	14	53	12	8♋30	5 5	29 49	6 7	6 58	1 27	28 8
8	15	52	34	20 22	4 43	29 44	6 19	7 41	2 42	29 35
9	16	51	58	2♌14	4 8	29 40	6 32	8 24	3 56	1♎ 5
10	17	51	24	14 10	3 23	29 35	6 45	9 8	5 11	2 40
11	18	50	53	26 15	2 28	29 31	6 58	9 51	6 25	4 16
12	19	50	24	8♍32	1 25	29 26	7 11	10 34	7 40	5 54
13	20	49	58	21 6	0 17	29 22	7 24	11 18	8 55	7 33
G	21	49	33	3♎58	0 n 53	29 17	7 36	12 1	10 9	9 13
15	22	49	11	17 10	2 2	29 13	7 49	12 45	11 24	10 34
16	23	48	51	0♏40	3 6	29 8	8 2	13 28	12 38	12 35
17	24	48	33	14 26	4 1	29 3	8 15	14 12	13 53	14 15
18	25	48	16	28 26	4 41	28 58	8 28	14 56	15 7	15 58
19	26	48	2	12♐35	5 6	28 53	8 41	15 40	16 22	17 41
20	27	47	49	26 50	5 11	28 49	8 54	16 24	17 36	19 22
G	28	47	39	11♑ 5	4 58	28 44	9 7	17 8	18 51	21 3
22	29	47	29	25 17	4 26	28 39	9 20	17 53	20 5	22 46
23	♏ 0	47	21	9♒26	3 38	28 34	9 33	18 37	21 20	24 27
24	1	47	15	23 29	2 38	28 29	9 46	19 21	22 34	26 8
25	2	47	11	7♓24	1 28	28 24	10 0	20 6	23 49	27 49
26	3	47	8	21 12	0 14	28 20	10 13	20 50	25 4	29 29
27	4	47	7	4♈50	0 s 59	28 15	10 26	21 35	26 18	1♏ 9
G	5	47	7	18 18	2 9	28 10	10 39	22 20	27 33	2 48
29	6	47	10	1♉33	3 10	28 5	10 52	23 4	28 47	4 26
30	7	47	14	14 35	4 0	28 0	11 5	23 49	0♐ 2	6 5
31	8	47	20	27, 23	4 37	27 55	11 18	24 34	1 16	7 44

M D	♃ ſets	♂ ſets	♀ ſets	☿ riſes	♄'s declin.	♃'s declin.	♂'s declin.	♀'s declin.	☿'s declin.
1	6 a 38	7 a 31	6 a 16	4 m 30	8 n 59	12 s 14	21 s 50	8 s 38	4 n 36
7	6 19	7 23	6 7	4 48	8 49	12 49	22 39	11 30	2 29
13	5 59	7 14	5 59	5 15	8 39	13 6	23 20	14 13	1 s 13
19	5 39	7 6	5 52	5 50	8 29	13 31	23 54	16 43	5 28
25	5 19	6 59	5 44	6 30	8 19	13 56	24 20	18 58	9 44

November hath xxx Days.

The Lunations.

Laſt quarter the 6th day, at 35 minutes paſt 10 night.
New Moon the 14th day, at 16 minutes paſt 11 morning.
Firſt quarter the 21ſt day, at 52 minutes paſt 3 morning.
Full Moon the 28th day, at 15 minutes paſt 2 afternoon.

M D	Sundays & other remark. days	☉ riſes	☉ ſets	☉'s declin.	☽'s declin.	☽ riſes & ſets	☽ South	Clock aft. ☉
1	All Saints	7 14	4 46	14 s 45	17 n 2	6 a 52	1 m 40	16 15
2	Pr. Edw. b.	all Soul	4 45	15 4	18 7	7 34	2 35	16 15
3	Prs. Sophia b.	7 17	4 43	15 23	18 22	8 22	3 24	16 15
G	22 S. aft. Trin.	7 19	4 41	15 42	17 48	9 15	4 12	16 13
5	Powder Plot	7 21	4 39	16 0	16 27	10 11	4 59	16 11
6	Leonard. Ter. b	7 22	4 38	16 18	14 23	11 10	5 45	16 7
7		7 24	4 36	16 35	11 42	morn	6 30	16 3
8	Prs. Aug. So b.	7 26	4 34	16 53	8 30	0 13	7 15	15 58
9	Ld. Mayor's day	7 27	4 33	17 10	4 52	1 17	8 0	15 52
10		7 29	4 31	17 26	0 56	2 24	8 43	15 46
G	23 S. aft. Trin.	St. Ma.	4 29	17 43	3 s 10	3 33	9 32	15 38
12	Cam. T. div. m.	7 32	4 28	17 59	7 14	4 43	10 21	15 30
13	Britius	7 34	4 26	18 15	11 3	5 56	11 13	15 20
14		7 36	4 24	18 30	14 20	☽ ſets	0 a 7	15 10
15	Machutus	7 37	4 23	18 45	16 48	5 a 37	1 4	14 59
16		7 39	4 21	19 0	18 12	6 33	2 3	14 47
17	Hugh B. of Lin.	7 40	4 20	19 15	18 24	7 34	3 3	14 35
G	24 S. aft. Trin.	7 42	4 18	19 29	17 22	8 41	4 2	14 21
19		7 43	4 17	19 43	15 14	9 53	4 59	14 7
20	Edmund	7 44	4 16	19 56	12 12	11 7	5 53	13 52
21		7 46	4 14	20 9	8 31	morn	6 45	13 36
22	Cecilia. O.M.d.	7 47	4 13	20 22	4 26	0 22	7 35	13 19
23	St. Clement.	7 48	4 12	20 34	0 11	1 35	8 24	13 2
24		7 50	4 10	20 46	11 n 0	2 46	9 12	12 44
G	25 S. aft. Trin.	D. Gl. b	4 9	20 58	7 56	3 55	9 59	12 25
26		7 52	4 8	21 9	11 26	5 3	10 47	12 5
27		7 53	4 7	21 20	14 22	6 9	11 35	11 45
28	Mic. Term end.	7 54	4 6	21 30	16 34	☽ riſes	morn	11 24
29		7 56	4 4	21 40	17 59	5 a 23	0 24	11 2
30	St. Andrew.	7 57	4 3	21 50	18 32	6 9	1 12	10 40

M D	Day decreaſ.	Length of day	Helioc. long. ♄	Helioc long. ♃	Helioc. long. ♂	Helioc. long. ⊖	Helioc. long. ♀	Helioc. long. ☿	♄ ſets
1	6 57	9 37	29♈ 7	11♏51	25♑33	9♉47	4♑17	8♏22	6 m 3
7	7 19	9 15	29 20	12 19	29 14	15 49	13 46	25 46	5 37
13	7 39	8 55	29 33	12 46	2♒57	21 52	23 15	12♐22	5 11
19	7 58	8 36	29 46	13 14	6 42	27 55	2♒44	28 57	4 44
25	8 14	8 20	29 59	13 42	10 27	4♊ 0	12 13	16♑15	4 17

M D	Day lig. begins	Daylig. ends	Durat. twilig.	Pl. ☽'s node	♄'s latitude	♃'s latitude	♂'s latitud	♀'s latitude	☿'s latitude
1	5 17	6 43	1 59	21♍48	2 s 47	0 n 56	1 s 15	0 s 33	0 n 17
7	5 25	6 35	2 2	21 29	2 46	0 51	1 16	0 4[illegible]	0 s 23
13	5 34	6 26	2 3	21 10	2 45	0 56	1 17	1 2	1 1
19	5 41	6 19	2 5	20 51	2 44	0 56	1 17	1 16	1 35
25	5 48	6 12	2 7	20 32	2 43	0 56	1 16	1 27	2 1

M D	☉'s longitude	☽'s long.	☽'s latitude	♄'s long.	♃'s long.	♂'s long.	♀'s long.	☿'s long.
1	♏ 9 47 28	9♊56	4 s 59	27♈50	11♏32	25♐19	2♐31	9♏21
2	10 47 39	22 15	5 7	27 46	11 45	26 4	3 45	10 58
3	11 47 50	4♋22	5 1	27 41	11 58	26 49	5 0	12 35
G	12 48 4	16 19	4 42	27 37	11 11	27 34	6 14	4 11
5	13 48 21	28 11	4 11	27 32	11 25	28 19	7 29	15 46
6	14 48 39	10♌1	3 30	27 28	11 38	29 4	8 43	17 22
7	15 49 0	21 55	2 39	27 24	12 51	29 49	9 58	18 58
8	16 49 22	3♍59	1 40	27 19	12 4	0♑34	11 12	20 33
9	17 49 47	16 16	0 36	27 15	12 1[illegible]	1 20	12 26	22 7
10	18 50 13	28 53	0 n 32	27 11	12 31	2 5	13 41	23 42
G	19 50 42	11♎52	1 40	27 7	12 44	2 51	14 55	25 16
12	20 51 12	25 16	2 44	27 3	12 57	3 36	16 10	26 50
13	21 51 44	9♏5	3 41	26 59	14 10	4 22	17 24	28 24
14	22 52 18	23 17	4 25	26 55	14 23	5 8	18 38	29 57
15	23 52 54	7♐45	4 54	26 51	14 36	5 53	19 53	1♐30
16	24 53 31	22 24	5 3	26 47	14 50	6 39	21 7	3 3
17	25 54 9	7♑6	4 53	26 43	14 3	7 25	22 21	4 35
G	26 54 48	21 42	4 24	26 39	14 16	8 11	23 36	6 8
19	27 55 29	6♒9	3 38	26 35	15 29	8 57	24 50	7 41
20	28 56 11	20 21	2 39	26 31	15 42	9 43	26 4	9 13
21	29 56 54	4♓19	1 32	26 28	15 55	10 29	27 19	10 44
22	♐ 0 57 37	18 1	0 20	26 24	15 8	11 15	28 33	12 16
23	1 58 22	1♈30	0 s 51	26 21	15 21	12 2	29 47	13 48
24	2 59 8	14 46	1 59	26 17	15 34	12 48	1♑2	15 20
G	3 59 55	27 50	2 59	26 14	16 47	13 34	2 16	16 51
26	5 0 43	10♉43	3 48	26 11	16 0	14 20	3 30	18 22
27	6 1 32	23 26	4 26	26 8	16 13	15 6	4 44	19 52
28	7 2 22	5♊59	4 50	26 5	16 26	15 53	5 59	21 22
29	8 3 13	18 20	5 0	26 2	16 38	16 39	7 13	22 52
30	9 4 6	0♋32	4 56	25 59	16 51	17 25	8 27	24 22

M D	♃ riſes	♂ ſets	♀ ſets	☿ ſets	♄'s declin.	♃'s declin.	♂'s declin.	♀'s declin.	♀'s declin.
1	7 m 21	6 a 5[illegible]	5 a 39	4 a 49	8 n 7	14 s 25	24 s 38	21 s 14	14 s 21
7	7 4	6 48	5 36	4 44	7 59	14 49	24 44	22 4	17 51
13	6 47	6 44	5 36	4 37	7 50	15 13	24 40	23 54	20 49
19	6 30	6 42	5 39	4 3[illegible]	7 43	15 37	24 26	24 37	23 11
25	6 13	6 [illegible]	5 43	4 36	7 36	15 59	24 2	24 54	24 50

December hath xxxi Days.

The Lunations.

Laſt quarter the 6th day, at 50 minutes paſt 6 night.
New Moon the 13th day, at 26 minutes paſt 10 night.
Firſt quarter the 20th day, at 46 minutes paſt 1 afternoon.
Full Moon the 28th day, at 16 minutes paſt 8 morning.

M D	Sundays & other remark. days	☉ riſes	☉ ſets	☉'s declin.	☽'s declin.	☽ riſes & ſets	☽ South	Clock aft. ☉
1		7 58	4 2	21 s 59	18 n 15	6 a 59	2 m 0	10′ 17″
G	Adv. Sunday.	7 59	4 1	22 8	17 9	7 54	2 47	9 53
3		8 0	4 0	22 16	15 20	8 52	3 33	9 29
4		8 0	4 0	22 24	12 52	9 52	4 18	9 4
5		8 1	3 59	22 31	9 52	10 53	5 2	8 39
6	Nicholas	8 2	3 58	22 38	6 25	11 58	5 46	8 13
7		8 3	3 57	22 45	2 38	morn	6 30	7 47
8	Conception	8 4	3 56	22 51	1 s 22	1 5	7 15	7 20
G	2 Sund. in Adv.	8 4	3 56	22 56	5 24	2 12	8 1	6 52
10		8 5	3 55	23 2	9 20	3 22	8 50	6 25
11		8 5	3 55	23 6	12 54	4 35	9 42	5 57
12		8 6	3 54	23 11	15 49	5 48	10 37	5 28
13	Lucy	8 6	3 54	23 14	17 47	☽ ſets	11 35	4 59
14		8 7	3 53	23 18	18 34	5 a 5	0 a 36	4 30
15		8 7	3 53	23 21	18 2	6 11	1 37	4 0
G	3 Sund. in Adv.	O Sap.	C. T. e.	23 23	16 15	7 24	2 37	3 31
17	Oxf. Term ends	8 8	3 52	23 25	13 24	8 40	3 35	3 1
18		8 8	3 52	23 26	9 47	9 57	4 29	2 31
19	Ember Week	8 8	3 52	23 27	5 41	11 11	5 21	2 1
20		8 8	3 52	23 28	1 23	morn	6 10	1 31
21	St. Thomas	Shor. d.	3 52	23 28	2 n 53	0 25	6 58	1 1
22		8 8	3 52	23 27	6 54	1 35	7 45	0 31
G	4 Sund. in Adv	8 8	3 52	23 27	10 30	2 42	8 32	0 1
24		8 8	3 52	23 25	13 35	3 47	9 19	0 be29
25	Chriſtmas D.	8 7	3 53	23 23	16 0	4 50	10 7	0 59
26	St. Stephen	8 7	3 53	23 21	17 39	5 50	10 55	1 29
27	St. John	8 7	3 53	23 18	18 29	6 45	11 43	1 58
28	Innocents	8 6	3 54	23 15	18 29	☽ riſes	morn	2 27
29		8 6	3 54	23 11	17 39	5 a 32	0 30	2 56
G	Sun. aft. Chriſ.	8 5	3 55	23 7	16 4	6 28	1 16	3 25
31	Silveſter	8 5	3 55	23 2	13 48	7 27	2 1	3 54

M D	Day decreaſ.	Length of day	Helioc. long. ♄	Helioc. long. ♃	Helioc. long. ♂	Helioc. long. ⊖	Helioc. long. ♀	Helioc. long. ☿	♄ ſets
1	8 28	8 6	0 ♉ 11	14 ♏ 0	14 ♒ 13	10 ♊ 5	21 ♒ 42	5 ♒ 7	2 m 31
7	8 40	7 54	0 24	14 37	18 1	16 11	1 ♓ 13	16 35	2 4
13	8 46	7 48	0 37	15 5	21 48	22 17	10 42	21 ♓ 53	1 37
19	8 50	7 44	0 50	15 32	25 37	28 24	20 15	22 ♈ 12	1 11
25	0 inc .2	7 46	1 3	16 6	29 25	4 ♋ 31	29 47	27 ♉ 36	0 45

M D	Day lig. begins	Day lig. ends	Durat. twilig.	Pl. ☽'s node	♄'s latitude	♃'s latitude	♂'s latitude	♀'s latitude	☿'s latitude
1	5 54	6 6	2 8	20 ♍ 12	2 s 42	0 n 55	1 s 16	1 s 37	2 s 17
7	5 57	6 3	2 10	19 53	2 40	0 56	1 15	1 45	2 18
13	5 59	6 1	2 12	19 34	2 38	0 56	1 14	1 50	1 57
19	6 1	5 59	2 11	19 15	2 37	0 56	1 13	1 53	1 2
25	6 1	5 59	2 11	18 56	2 35	0 56	1 11	1 52	0 n 35

M D	☉'s longitude	☽'s long.	☽'s latitude	♄'s long.	♃'s long.	♂'s long.	♀'s long.	☿'s long.
1	♐ 10 5 0	12 ♋ 34	4 s 39	25 ♈ 56	18 ♏ 4	18 ♑ 12	9 ♑ 41	25 ♐ 51
G	11 5 55	24 29	4 9	25 53	18 17	18 59	10 56	27 19
3	12 6 51	6 ♌ 18	3 29	25 51	18 29	19 45	12 10	28 47
4	13 7 48	18 7	2 40	25 48	18 42	20 32	13 24	0 ♑ 15
5	14 8 47	29 59	1 44	25 46	18 54	21 19	14 38	1 42
6	15 9 47	11 ♍ 59	0 43	25 43	19 7	22 5	15 52	3 7
7	16 10 48	24 13	0 n 22	25 41	19 20	22 52	17 6	4 31
8	17 11 51	6 ♎ 47	1 27	25 39	19 33	23 39	18 20	5 53
G	18 12 55	19 44	2 30	25 37	19 45	24 26	19 34	7 14
10	19 14 0	3 ♏ 9	3 27	25 35	19 57	25 12	20 48	8 35
11	20 15 5	17 4	4 13	25 34	20 10	25 59	22 2	9 53
12	21 16 12	1 ♐ 27	4 45	25 32	20 22	26 46	23 16	11 8
13	22 17 20	16 13	5 0	25 31	20 34	27 33	24 30	12 19
14	23 18 28	1 ♑ 15	4 54	25 29	20 47	28 20	25 44	13 27
15	24 19 36	16 22	4 27	25 28	20 59	29 7	26 58	14 31
G	25 20 45	1 ♒ 23	3 42	25 26	21 11	29 54	28 12	15 31
17	26 21 55	16 12	2 43	25 25	21 23	0 ♒ 41	29 25	16 24
18	27 23 5	0 ♓ 40	1 34	25 24	21 35	1 28	0 ♒ 39	17 12
19	28 24 14	14 47	0 21	25 23	21 47	2 15	1 53	17 53
20	29 25 24	28 30	0 s 52	25 22	21 59	3 2	3 7	18 26
21	♑ 0 26 34	11 ♈ 53	1 59	25 22	22 10	3 49	4 21	18 50
22	1 27 44	24 58	2 59	25 21	22 23	4 36	5 34	19 5
G	2 28 54	7 ♉ 47	3 49	25 21	22 33	5 24	6 48	19 R 11
24	3 30 3	20 24	4 26	25 20	22 45	6 1	8 2	19 6
25	4 31 13	2 ♊ 50	4 50	23 20	22 56	6 58	9 15	18 43
26	5 32 23	15 6	5 0	25 20	23 8	7 45	10 28	18 18
27	6 33 32	27 15	4 57	25 D 20	23 19	8 32	11 41	17 34
28	7 34 42	9 ♋ 17	4 40	25 20	23 30	9 19	12 55	16 36
29	8 35 52	21 14	4 11	25 20	23 42	10 7	14 8	15 32
G	9 37 2	3 ♌ 5	3 31	25 20	23 53	10 54	15 21	14 20
31	10 38 12	14 54	2 42	25 21	24 4	11 41	16 35	13 4

M D	♃ riſes	♂ ſets	♀ ſets	☿ ſets	♄'s declin.	♃'s declin.	♂'s declin.	♀'s declin.	☿s' declin.
1	5 m 53	6 a 38	5 a 52	4 a 44	7 n 31	16 s 21	23 s 29	24 s 44	25 s 41
7	5 34	6 37	6 2	5 22	7 27	16 41	22 46	24 7	25 42
13	5 15	6 35	6 15	5 10	7 25	17 1	21 54	23 3	24 50
19	4 56	6 34	6 29	5 8	7 24	17 20	20 52	21 36	23 17
25	4 36	6 34	6 42	5 5	7 24	17 33	19 41	19 46	21 35

The Georgian or New Planet.

Months	Days	Helicoentric longitude		Helicoentric latitude		Geocentric longitude		Geocentric latitude		Declin.		Southi.	
		°	'	°	'	°	'	°	'	°	'	h	m
January	1	16 ♌	30	0	n 41	18 ♌	22	0	n 43	16 n	1	14	34
	11	16	38	0	41	18	1	0	44	16	18	13	49
	21	16	46	0	41	17	37	0	44	16	6	13	5
February	1	16	54	0	42	17	9	0	44	16	24	12	18
	11	17	2	0	42	16	43	0	44	16	32	11	36
	21	17	9	0	42	16	17	0	44	16	40	10	55
March	1	17	16	0	42	15	56	0	44	16	47	10	20
	11	17	24	0	42	15	34	0	44	16	53	9	42
	21	17	32	0	42	15	16	0	43	16	58	9	5
April	1	17	40	0	42	15	2	0	43	17	2	8	24
	11	17	48	0	42	14	54	0	43	17	4	7	47
	21	17	56	0	42	14	52	0	42	17	4	7	10
May	1	18	3	0	42	14	54	0	42	17	3	6	32
	11	18	11	0	42	15	3	0	42	17	0	5	54
	21	18	19	0	42	15	16	0	41	16	56	5	15
June	1	18	27	0	42	15	36	0	41	16	50	4	32
	11	18	35	0	42	15	59	0	41	16	43	3	52
	21	18	43	0	42	16	26	0	41	16	34	3	13
July	1	18	50	0	42	16	56	0	40	16	25	2	34
	11	18	58	0	42	17	29	0	40	16	15	1	55
	21	19	6	0	42	18	4	0	40	16	4	1	17
August	1	19	14	0	42	18	45	0	40	15	52	0	36
	11	19	22	0	42	19	22	0	40	15	40	0	1
	21	19	30	0	42	19	59	0	40	15	28	23	23
September	1	19	38	0	42	20	40	0	40	15	15	22	45
	11	19	46	0	42	21	15	0	41	15	4	22	11
	21	19	54	0	43	21	48	0	41	14	54	21	38
October	1	20	1	0	43	22	18	0	41	14	45	21	4
	11	20	9	0	43	22	45	0	41	14	37	20	29
	21	20	17	0	43	23	7	0	42	14	29	19	53
November	1	20	25	0	43	23	27	0	42	14	23	19	11
	11	20	33	0	43	23	38	0	43	14	19	18	32
	21	20	41	0	43	23	45	0	43	14	17	17	51
December	1	20	48	0	43	23	46	0	44	14	17	17	8
	11	20	56	0	43	23	42	0	44	14	19	16	24
	21	21	4	0	43	23	32	0	44	14	23	15	39
	31	21	12	0	43	23	17	0	45	14	29	14	54

Time of High-Water at London in the morning and afternoon of every day in the year.

Mo. Days	January				February				March				April				Mo. Days
	morn.		aftern.		morn.		aftern.		morn.		aftern.		morn.		aftern.		
	h	m	h	m	h	m	h	m	h	m	h	m	h	m	h	m	
1	7	10	7	36	8	6	8	36	7	29	7	57	8	57	9	28	1
2	8	4	8	33	9	7	9	40	8	27	8	57	9	59	10	30	2
3	9	3	9	33	10	10	10	40	9	29	10	2	11	1	11	31	3
4	10	3	10	32	11	10	11	40	10	33	11	3			0	0	4
5	11	2	11	31			0	9	11	33			0	27	0	54	5
6	11	59			0	36	1	2	0	3	0	30	1	20	1	46	6
7	0	25	0	51	1	26	1	51	0	56	1	22	2	11	2	34	7
8	1	16	1	40	2	14	2	35	1	45	2	10	2	56	3	15	8
9	2	4	2	26	2	54	3	11	2	33	2	52	3	32	3	50	9
10	2	47	3	5	3	26	3	41	3	9	3	26	4	7	4	30	10
11	3	19	3	33	3	55	4	11	3	42	3	56	4	51	5	15	11
12	3	48	4	3	4	28	4	47	4	14	4	34	5	39	6	8	12
13	4	18	4	35	5	6	5	27	4	56	5	18	6	38	7	9	13
14	4	54	5	12	5	50	6	17	5	41	6	9	7	42	8	16	14
15	5	30	5	51	6	45	7	16	6	38	7	10	8	51	9	26	15
16	6	15	6	41	7	48	8	24	7	43	8	19	10	2	10	35	16
17	7	9	7	39	9	2	9	41	8	57	9	36	11	7	11	38	17
18	8	11	8	45	10	21	11	0	10	14	10	50			0	9	18
19	9	23	10	1	11	37			11	24	11	56	0	36	1	1	19
20	10	40	11	19	0	11	0	44			0	27	1	26	1	49	20
21	11	58			1	13	1	41	0	55	1	22	2	12	2	36	21
22	0	33	1	5	2	9	2	35	1	47	2	12	2	53	3	10	22
23	1	37	2	7	2	54	3	12	2	34	2	55	3	26	3	42	23
24	2	33	2	57	3	29	3	44	3	11	3	26	3	56	4	10	24
25	3	15	3	32	3	59	4	13	3	41	3	57	4	28	4	47	25
26	3	49	4	5	4	32	4	51	4	13	4	30	5	5	5	24	26
27	4	23	4	42	5	9	5	27	4	48	5	7	5	45	6	8	27
28	4	59	5	17	5	49	6	12	5	26	5	46	6	32	6	58	28
29	5	37	5	59	6	36	7	2	6	9	6	34	7	26	7	51	29
30	6	22	6	47					6	59	7	26	8	20	8	50	30
31	7	12	7	38					7	55	8	26					31

This Table may ſerve the following Places, by adding

	h	m
For Tinmouth Haven, Hartle-pool, *and* Amſterdam	0	30
Breſt — — — — — — — —	1	0
Scilly — — — — — — — —	1	45
Mount's Bay — — — — — — —	1	55
Bridlington Pier *and* Humber — — —	2	0

Time of High-Water at LONDON in the morning and afternoon of every day in the year.

Mo. Days	MAY				JUNE				JULY				AUGUST				Mo. Days
	morn.		aftern.		morn.		aftern.		morn.		aftern.		morn		aftern		
	h	m	h	m	h	m	h	m	h	m	h	m	h	m	h	m	
1	9	21	9	53	10	43	11	16	11	11	11	46	0	41	1	13	1
2	10	24	10	54	11	48					0	22	1	44	2	13	2
3	11	25	11	57	0	22	0	53	0	59	1	32	2	41	3	3	3
4			0	26	1	24	1	55	2	4	2	31	3	22	3	39	4
5	0	54	1	22	2	25	2	50	2	57	3	17	3	55	4	14	5
6	1	48	2	16	3	12	3	32	3	37	3	55	4	32	4	51	6
7	2	43	3	9	3	51	4	11	4	12	4	34	5	10	5	30	7
8	3	24	3	43	4	33	4	53	4	55	5	15	5	51	6	15	8
9	4	3	4	24	5	15	5	40	5	35	6	0	6	40	7	4	9
10	4	46	5	10	6	6	6	32	6	24	6	49	7	31	8	0	10
11	5	32	6	0	6	59	7	26	7	14	7	42	8	30	9	0	11
12	6	25	6	58	7	54	8	24	8	9	8	39	9	32	10	3	12
13	7	27	7	54	8	54	9	25	9	9	9	39	10	35	11	6	13
14	8	31	9	3	9	57	10	27	10	10	10	40	11	37			14
15	9	36	10	7	10	56	11	26	11	11	11	41	0	5	0	32	15
16	10	38	11	8	11	54					0	10	0	58	1	22	16
17	11	38			0	21	0	47	0	37	1	2	1	46	2	9	17
18	0	6	0	32	1	12	1	36	1	26	1	50	2	29	2	49	18
19	0	57	1	21	2	1	2	24	2	13	2	36	3	5	3	20	19
20	1	45	2	9	2	43	3	1	2	53	3	9	3	35	3	49	20
21	2	31	2	51	3	17	3	32	3	24	3	39	4	4	4	20	21
22	3	8	3	23	3	46	4	0	3	43	4	6	4	38	4	57	22
23	3	39	3	54	4	16	4	33	4	23	4	40	5	17	5	37	23
24	4	10	4	25	4	50	5	7	4	57	5	14	6	3	6	29	24
25	4	43	5	1	5	25	5	44	5	34	5	55	7	0	7	29	25
26	5	19	5	38	6	7	6	30	6	20	6	46	8	4	8	41	26
27	6	1	6	23	6	54	7	19	7	15	7	44	9	21	10	1	27
28	6	47	7	11	7	48	8	18	8	18	8	54	10	40	11	18	28
29	7	38	8	6	8	51	9	25	9	32	10	11	11	54	0	59	29
30	8	36	9	7	10	0	10	37	10	49	11	27	0	29	1	57	30
31	9	20	10	11					11	54			1	29			31

Adding	h	m
For Fowey, Loo *and* Plymouth — — — —	3	10
Dartmouth, Harborough *and* Hull — —	3	30
Torbay *and* Tinmouth — — — — — —	3	40
Exmouth, Topſham *and* Lime — — —	3	50
Weymouth — — — — — — —	4	20
Bridgewater *and* Texel — — — — —	4	40
Portland and Hartflew — — — — —	5	50

Time of High-Water at LONDON in the morning and afternoon of every day in the year.

Mo. Days	SEPTEMBER				OCTOBER				NOVEMBER				DECEMBER				Mo. Days
	morn.		aftern.		morn.		aftern.		morn.		aftern.		morn.		aftern.		
	h	m	h	m	h	m	h	m	h	m	h	m	h	m	h	m	
1	2	25	2	46	2	52	3	9	3	41	4	56	3	49	4	4	1
2	3	6	3	24	3	26	3	42	4	10	4	29	4	20	4	37	2
3	3	41	3	56	3	57	4	14	4	48	5	7	4	55	5	13	3
4	4	11	4	29	4	32	4	50	5	26	5	47	5	31	5	51	4
5	4	40	5	8	5	9	5	30	6	10	6	34	6	13	6	36	5
6	5	27	5	50	5	51	6	15	6	59	7	24	7	0	7	25	6
7	6	13	6	39	6	40	7	6	7	50	8	19	7	50	8	19	7
8	7	5	7	33	7	33	8	2	8	48	9	18	8	48	9	19	8
9	8	2	8	32	8	32	9	2	9	49	10	18	9	50	10	21	9
10	9	2	9	34	9	33	10	2	10	47	11	17	10	53	11	23	10
11	10	7	10	37	10	34	11	3	11	48			11	59			11
12	11	6	11	36	11	32	11	59	0	16	0	43	0	30	1	0	12
13			0	5			0	26	1	10	1	37	1	30	2	0	13
14	0	31	0	56	0	52	1	17	2	5	2	32	2	27	2	54	14
15	1	20	1	43	1	42	2	6	2	52	3	13	3	14	3	32	15
16	2	6	2	30	2	29	2	51	3	32	3	51	3	52	4	12	16
17	2	48	3	6	3	12	3	32	4	12	4	32	4	34	4	57	17
18	3	22	3	37	3	46	4	0	4	55	5	18	5	19	5	41	18
19	3	52	4	8	4	20	4	42	5	44	6	10	6	7	6	33	19
20	4	27	4	47	5	4	5	26	6	38	7	7	7	0	7	26	20
21	5	8	5	30	5	54	6	23	7	38	8	9	7	56	8	26	21
22	5	57	6	25	6	54	7	25	8	42	9	15	8	57	9	28	22
23	6	56	7	27	8	0	8	34	9	47	10	20	10	0	10	31	23
24	8	3	8	40	9	10	9	46	10	51	11	22	11	1	11	31	24
25	9	19	9	58	10	20	10	53	11	56					0	9	25
26	10	34	11	9	11	26	11	58	0	19	0	45	0	28	0	54	26
27	11	43					0	25	1	11	1	36	1	19	1	44	27
28	0	17	0	46	0	53	1	18	2	0	2	23	2	8	2	30	28
29	1	15	1	41	1	43	2	8	2	45	3	2	2	50	3	6	29
30	2	7	2	36	2	32	2	50	3	19	3	34	3	22	3	36	30
31					3	8	3	25					3	50	4	0	31

Subtracting	h	m
For Leigh, Maes, *and* Gouries Gut — — — —	0	5
Graveſend, Rocheſter, *and* Rammekins — — —	1	20
Buoy of the Nore *and* Fluſhing — — — — —	1	30
Portſmouth, Oſtend, Shoe-Becon, *and* Red-Sand —	2	0
Harwich, Dover, Spithead, *and* Calais — — —	3	0
Gunfleet, Haſtings, Shoreham, Orfordneſs, *and* Diepe —	4	0
Yarmouth Pier *and* Needle — — — — — —	4	40
St. Helen's *and* Havre-de-Grace — — — — —	5	30

The Eclipſes of Jupiter's

JANUARY				FEBRUARY				MARCH				APRIL			
Emerſions				Immerſions				Immerſions				Immerſions			
1	13	39	59	2	10	0	26	1*	17	36	41	2*	14	18	20
3	8	7	33	4	4	28	39	3*	12	5	29	4*	8	47	23
5	2	35	6	5	22	56	54	5	6	34	19	6	3	16	28
6	21	2	40	7*	17	25	12	7	1	3	12	7	21	45	31
8*	15	30	16	9	11	53	33	8	19	32	7	9*	16	14	35
10	9	57	53	11	6	21	56	10*	14	1	2	11*	10	43	37
12	4	25	31	13	0	50	22	12	8	29	57	13	5	12	40
13	22	53	13	14	19	18	50	14	2	58	56	14	23	41	40
15*	17	20	55	16*	13	47	20	15	21	27	54	Emerſions			
17	11	48	42	18	8	15	51	17*	15	56	55	16	20	19	3
19	6	16	30	20	2	44	24	19*	10	25	55	18*	14	48	0
21	0	44	20	21	21	13	1	21	4	54	57	20*	9	16	58
22	19	12	12	23*	15	41	42	22	23	23	58	22	3	45	55
24*	13	40	8	25	10	10	23	24	17	53	1	23	22	14	51
26	8	8	6	27	4	39	8	26*	12	22	3	25	16	43	45
28	2	36	6	28	23	7	53	28	6	51	7	27*	11	12	39
29	21	4	9					30	1	20	9	29	5	41	30
31*	15	32	16					31	19	49	13				

MAY				JUNE				JULY				AUGUST			
Emerſions				Emerſions				Emerſions				Emerſions			
1	0	10	22	1	20	45	30	1	22	47	24	1	0	52	57
2	18	39	10	3	15	13	54	3	17	15	45	2	19	21	46
4*	13	7	59	5*	9	42	18	5	11	44	11	4	13	50	34
6	7	36	46	7	4	10	41	7	6	12	37	6	8	19	26
8	2	5	32	8	22	39	4	9	0	41	2	8	2	48	19
9	20	34	17	10	17	7	26	10	19	9	30	9	21	17	15
11	15	2	58	12*	11	35	46	12	13	38	1	11	15	46	13
13*	9	31	40	14	6	4	5	14	8	6	31	13	10	15	9
15	4	0	18	16	0	32	24	16	2	35	2	15	4	44	9
16	22	28	55	17	19	0	43	17	21	3	35	16	23	13	8
18	16	57	31	19	13	29	3	19	15	32	9	18	17	42	10
20*	11	26	5	21	7	57	22	21	10	0	43	20	12	11	14
22	5	54	37	23	2	25	41	23	4	29	22	22	6	40	19
24	0	23	9	24	20	54	1	24	22	58	1	24	1	9	22
25	18	51	39	26	15	22	20	26	17	26	42	25	19	38	29
27*	13	20	8	28*	9	50	41	28	11	55	25	27	14	7	36
29	7	48	37	30	4	19	4	30	6	24	11	29	8	36	45
31	2	17	5									31	3	5	54

firſt Satellite for 1792.

SEPTEMBER				OCTOBER	NOVEMBER	DECEMBER			
Emerſions						Immerſions			
1	21	35	4			1	1	49	46
3	16	4	15			2	20	17	24
5	10	33	26			4	14	45	3
7	5	2	38	The Eclipſes of Jupiter's Satellites will not be viſible this month, Jupiter being too near the Sun.	The Eclipſes of the Satellites of Jupiter will not be viſible this Month, Jupiter being too near the Sun.	6	9	12	38
8	23	31	46			8	3	40	12
10	18	1	0			9	22	7	45
12	12	30	9			11	16	35	16
14	6	59	22			13	11	2	48
16	1	28	32			15	5	30	14
17	19	57	43			16	23	57	43
19	14	26	52			18*	18	25	9
21	8	56	3			20	12	52	36
23	3	25	12			22	7	20	2
24	21	54	23			24	1	47	30
26	16	13	30			25	20	14	58
28	10	52	38			27	14	42	25
30	5	21	44			29	9	9	52
						31	3	37	21

The Times of the Eclipſes contained in this Table, are adapted to the Meridian of the Royal Obſervatory at Greenwich, and afford an excellent Method to diſcover the Longitude, or Difference of Meridians, between that and any other Place; which I ſhall illuſtrate by an EXAMPLE:

Suppoſe on the 25th Day of December of this Year, the Time of the Immerſion of Jupiter's firſt Satellite be obſerved (by a Teleſcope) in an unknown Meridian, to happen at 22 h. 3 min. 18 ſec.; I find by the Table, that the Time of this Immerſion will happen at the Britiſh Obſervatory, at 20 h. 14 min. 58 ſec. the ſame day: The Difference of the Times is 1 hour 48 min. 20 ſec. which being converted into Degrees and Minutes of the Equator, will make 27 deg. 5 min. the Longitude of the Place of Obſervation, to the Eaſt, becauſe the Time is more than that at the Britiſh Obſervatory.

N. B. Thoſe marked with an Aſteriſk are viſible at Greenwich.

Speculum Phænomenorum

JANUARY

1	☿ elong. max.
2	□ ⊙ ♄ 12h.
6	☾ in apoge
6	☿ in ☊
9	☿ ſtationary
11	⊙ in ♄'s ☋
11	☿ in perihelio
14	☌ ☾ ♂ 18h.
16	☌ ☾ ♃ 21h.
17	☌ ⊙ ☿ 21h.
19	☌ ☾ ♀ 23h.
19	⊙ in ♒ 18h. 21m
20	□ ⊙ ♃ 6h.
20	♂ in aphelio
21	☾ in perigeo
22	☌ ☾ ☿ 12h.
28	☌ ☾ ♄ 7h.
36	☿ ſtationary

FEBRUARY

2	☾ in apoge
5	♂ ſtationary
11	☌ ☾ ♂ 4h.
11	☿ elong. max.
11	☍ ⊙ ♅ 8h.
13	☌ ☾ ♃ 4h.
13	☿ in ☋
15	♃ ſtationary
18	☌ ☾ ♀ 12h.
18	⊙ in ♓ 9h. om
18	☾ in perige
19	☌ ☾ ☿ 21h.
23	☿ in aphelio
24	☌ ☾ ♄ 21h.

MARCH

1	☾ in apogeo
8	♀ in ☋
9	☌ ☾ ♂ oh.
11	☌ ☾ ♃ 8h,
15	☍ ⊙ ♂ 14h.
16	☽ in perigeo
19	☌ ☾ ♀ 10h.
19	⊙ in ♈ 9h. 22m.
21	☌ ☾ ☿ 21h.
22	⊙ ecl. inviſ.
23	☌ ☾ ♄ 13h.
27	☌ ⊙ ☿ 9h.
29	☾ in apogeo

APRIL

3	☿ in ☊
4	☌ ☾ ♂ 17h.
7	☌ ☾ ♃ 12h.
7	☿ in perihelio
10	☌ ⊙ ♄ 16h.
10	☾ in perige
12	♀ in aphilio
15	☍ ⊙ ♃ 11h.
18	☌ ☾ ♀ 9h.
18	⊙ in ♉ 22h. 4m.
20	☌ ☾ ♄ 3h.
22	☌ ☾ ☿ 14h.
22	☿ elong. max.
26	♂ ſtationary
26	☾ in apoge

MAY

1	☌ ☾ ♂ 20h.
4	☌ ☾ ♃ 16h.
4	☿ ſtationary
4	□ ⊙ ♅
5	⊙ in ☿'s ☋
7	⊙ in ♂ ☊
8	☾ in petige
12	☿ in ☋
14	☌ ⊙ ☿ 19h.
17	☌ ☾ ♄ 16h.
18	☌ ☾ ♀ 13h.
19	☌ ☾ ☿ 17h.
19	⊙ in ♊ 22h. 37m.
21	☿ in aphelio
23	☾ in apoge
27	☿ ſtationary
29	☌ ☾ ♂ 16h.
31	☌ ☾ ♃ 16h

JUNE

2	⊙ in ♅ ☊
4	⊙ in ☿'o ☊
5	☾ in perige
10	☿ elong. max.
14	☌ ☾ ♄ 3h.
17	☌ ☾ ♀ 19h.
17	☌ ☾ ☿ 1h.
17	♃ ſtationary
20	⊙ in ♋ 7h. 19m.
20	☾ in apoge
21	□ ⊙ ♂ 20h.
26	☌ ☾ ♂ 20h.
28	☌ ☾ ♃ 5h.
29	⊙ in ♃ ☊
30	♀ in ☊

ad Annum 1792.

July

3	♂ in ☊
3	☾ in perigeo
10	☌ ☉ ☿ 8h.
11	☌ ☾ ♄ 12h.
13	☉ in ♄'s ☊
14	□ ☉ ♃ 2h.
17	☾ in apoge
18	☌ ☾ ♀ 1h.
19	☌ ☾ ☿ 14h.
21	☉ in ♌ 18h. 11m.
23	□ ☉ ♄ 17h.
25	☌ ☾ ♃ 17h.
25	☌ ☾ ♂ 8h.
30	♀ in ☊

August

1	☾ in perigeo
[illegible]	♀ in perihelio
6	☌ ☉ ♀ 3h.
7	☌ ☾ ♄ 22h.
7	☿ in ☋
10	☌ ☉ ♅ 23h.
13	♄ ſtationary
13	☾ in apoge
17	☌ ☾ ♀ 13h.
19	☌ ☾ ☿ 16h.
21	☿ elong. max.
22	☌ ☾ ♃ 5h.
22	☌ ☾ ♂ 20h.
22	☉ in ♍ 0h. 35m.
25	♂ mean diſt.
29	☾ in apoge

September

3	☿ ſtationary
4	☌ ☾ ♄ 6h.
10	☾ in apoge
15	☉ eclipſed, inviſ.
16	☌ ☾ ♀ 22h.
16	☌ ☾ ☿ 0h.
16	☌ ☾ ☿ 17h.
18	☌ ☾ ♃ 19h.
20	☌ ☾ ♂ 12h.
21	☉ in ♎ 21h. 4m.
25	☾ in perige
26	☿ ſtationary
26	☿ in ☋
30	☿ in perihelio

October

1	☌ ☾ ♄ 13h.
2	☿ elong. max.
8	☾ in apoge
11	☌ ♃ ♀
14	☌ ☾ ☿ 10h.
16	☌ ☾ ♃ 14h.
16	☌ ☾ ♀ 23h.
19	☌ ☾ ♂ 5h.
19	☿ in ☋
20	☍ ☉ ♄ 22h.
21	☾ in perige
22	☉ in ♏ 5h. 1m.
28	☌ ☾ ♄ 18h.

November

1	☌ ☉ ☿ 17h.
3	☌ ☉ ♃ 5h.
4	☾ in apoge
7	☉ in ☿'s ☋
9	☉ in ♂'s ☋
13	☌ ☾ ♃ 9h.
13	☿ in aphelio
14	☌ ☾ ☿ 12h.
15	☌ ☾ ♀ 21h.
17	☌ ☾ ♂ 0h.
17	☾ in perige
21	☉ in ♐ 1h. 13m.
22	♀ in aphelio
24	☌ ☾ ♄ 21h.

December

2	☾ in apoge
4	☉ in ♅'s ☋
5	☉ in ♀'s ☋
11	☌ ☾ ♃ 5h.
14	☌ ☾ ☿ 20h.
15	☌ ☾ ♂ 22h.
15	☌ ☾ ♀ 18h.
15	☿ elong. max.
15	☾ in perige
19	☌ ♂ ♀
20	☉ in ♑ 13h. 35m.
22	☌ ☾ ♄ 1h.
23	☿ ſtat. in ☋
27	♄ ſtationary
27	☿ in perihelio
28	♂ in perihelio
29	☉ in ♃'s ☋
30	☾ in apogeo

A Table of the Sun's ſemi-diurnal Arches, or Times

The Sun's Declination North.

Degr.	Lat. 49		Lat. 50		Lat. 51		Lat. 52		Lat. 53		Lat. 54	
	h	m	h	m	h	m	h	m	h	m	h	m
0	6	4	6	4	6	4	6	4	6	4	6	4
1	6	8	6	8	6	8	6	9	6	9	6	9
2	6	12	6	13	6	13	6	14	6	14	6	15
3	6	17	6	18	6	18	6	19	6	19	6	29
4	6	22	6	22	6	22	6	24	6	25	6	25
5	6	26	6	27	6	27	6	29	6	30	6	31
6	6	31	6	32	6	33	6	34	6	36	6	37
7	6	36	6	37	6	38	6	40	6	41	6	43
8	6	41	6	42	6	43	6	45	6	47	6	48
9	6	45	6	47	6	48	6	50	6	52	6	54
10	6	50	6	52	6	54	6	56	6	58	7	0
11	6	55	6	57	6	59	7	1	7	3	7	6
12	7	0	7	2	7	4	7	7	7	9	7	12
13	7	5	7	7	7	10	7	12	7	15	7	18
14	7	10	7	13	7	15	7	18	7	21	7	24
15	7	15	7	18	7	21	7	24	7	27	7	31
16	7	21	7	24	7	27	7	30	7	33	7	37
17	7	26	7	29	7	33	7	36	7	40	7	44
18	7	31	7	35	7	38	7	42	7	46	7	51
19	7	37	7	41	7	45	7	49	7	53	7	58
20	7	43	7	47	7	51	7	55	8	0	8	5
21	7	49	7	53	7	57	8	2	8	7	8	12
22	7	55	7	59	8	4	8	9	8	14	8	20
23	8	1	8	6	8	11	8	16	8	22	8	28
24	8	7	8	12	8	18	8	24	8	30	8	36

By theſe Tables the Times of the Sun's Riſing and Setting may be found, in any Part of the Kingdom of *Great-Britain* or *Ireland*, after the following Manner: Where the Latitude of the Place is known, take the Sun's Declination out of the Table, on the Noon of the Day you deſire to know the Time of his Riſing and Setting; and with it, according as it is either North or South, enter theſe Tables in the Left-of his viſible half Duration above the Horizon.

The Sun's Declination South.

Degr.	Lat. 49		Lat. 50		Lat. 51		Lat. 52		Lat. 53		Lat. 54	
	h	m	h	m	h	m	h	m	h	m	h	m
0	6	4	6	4	6	4	6	4	6	4	6	4
1	5	59	5	59	5	58	5	58	5	58	5	58
2	5	54	5	54	5	53	5	53	5	53	5	53
3	5	49	5	49	5	49	5	48	5	48	5	47
4	5	45	5	44	5	44	5	43	5	42	5	42
5	5	40	5	39	5	39	5	38	5	37	5	36
6	5	35	5	35	5	34	5	33	5	31	5	30
7	5	31	5	30	5	29	5	27	5	26	5	25
8	5	26	5	25	5	23	5	22	5	21	5	19
9	5	21	5	20	5	18	5	17	5	16	5	13
10	5	17	5	15	5	13	5	11	5	10	5	8
11	5	12	5	10	5	8	5	6	5	4	5	2
12	5	7	5	5	5	3	5	0	4	58	4	56
13	5	2	5	0	4	57	4	55	4	52	4	50
14	4	57	4	54	4	52	4	49	4	47	4	44
15	4	52	4	49	4	46	4	44	4	41	4	37
16	4	46	4	45	4	41	4	38	4	34	4	31
17	4	41	4	38	4	35	4	32	4	28	4	23
18	4	36	4	33	4	29	4	26	4	22	4	18
19	4	30	4	27	4	23	4	19	4	15	4	11
20	4	25	4	21	4	17	4	13	4	9	4	4
21	4	19	4	15	4	11	4	6	4	2	3	57
22	4	13	4	9	4	4	4	0	3	55	3	50
23	4	7	4	3	3	58	3	53	3	47	3	42
24	4	1	3	56	3	51	3	46	3	40	3	34

Left-hand Column, under the Word Degrees; then look the Latitude of the Place in the Top of the Table; and in that Column, againſt the Sun's Declination, will be found the Time of his viſible half Duration above the Horizon, or Time of his Setting, correct by Refraction; then ſubtract the Time of his Setting from 12 Hours, the Remainder will be the Time of his Riſing; double the Time of his Setting, the

A Table of the Sun's ſemi-diurnal Arches, or Times

The Sun's Declination North.

Degr	Lat. 55 h	Lat. 55 m	Lat. 56 h	Lat. 56 m	Lat. 57 h	Lat. 57 m	Lat. 58 h	Lat. 58 m	Lat. 59 h	Lat. 59 m	Lat. 60 h	Lat. 60 m
0	6	4	6	4	6	4	6	4	6	4	6	4
1	6	9	6	10	6	10	6	10	6	11	6	11
2	6	15	6	16	6	16	6	17	6	17	6	18
3	6	21	6	22	6	22	6	23	6	24	6	25
4	6	27	6	28	6	29	6	30	6	31	6	32
5	6	32	6	34	6	35	6	36	6	38	6	39
6	6	38	6	40	6	41	6	43	6	44	6	46
7	6	44	6	46	6	48	6	49	6	51	6	53
8	6	50	6	52	6	54	6	56	6	58	7	1
9	6	56	6	58	7	1	7	3	7	5	7	8
10	7	2	7	5	7	7	7	10	7	13	7	16
11	7	8	7	10	7	14	7	17	7	20	7	23
12	7	15	7	18	7	21	7	34	7	27	7	31
13	7	21	7	24	7	28	7	31	7	35	7	39
14	7	28	7	31	7	35	7	39	7	43	7	47
15	7	34	7	39	7	42	7	46	7	51	7	56
16	7	41	7	45	7	49	7	54	7	59	8	4
17	7	48	7	52	7	57	8	1	8	7	8	13
18	7	55	8	0	8	5	8	10	8	16	8	22
19	8	2	8	7	8	13	8	19	8	25	8	32
20	8	10	8	15	8	21	8	28	8	35	8	42
21	8	18	8	24	8	30	8	37	8	45	8	53
22	8	26	8	32	8	39	8	47	8	55	9	4
23	8	34	8	41	8	49	8	57	9	6	9	16
24	8	43	8	51	8	59	9	8	9	18	9	29

the Sum will be the Length of the Day ; and double the Time of his Riſing, the Sum will be the Length of the Night. But if the Latitude of the Place, and Declination of the Sun, conſiſt of Degrees and Minutes, then a ſmall Allowance muſt be made for the Minutes in both Caſes, which may be done by a Perſon of an ordinary Capacity by a mental Proportion only. Thus, to find the Time of the Sun's Riſing and Setting at of his viſible half Duration above the Horizon.

The Sun's Declination South.

Degr.	Lat. 55		Lat. 56		Lat. 57		Lat. 58		Lat. 59		Lat. 60	
	h	m	h	m	h	m	h	m	h	m	h	m
0	6	4	6	4	6	4	6	4	6	4	6	4
1	5	58	5	58	5	58	5	58	5	57	5	57
2	5	52	5	52	5	52	5	51	5	51	5	50
3	5	47	5	46	5	45	5	45	5	44	5	43
4	5	41	5	40	5	39	5	38	5	37	5	36
5	5	35	5	34	5	33	5	32	5	31	5	29
6	5	29	5	28	5	27	5	25	5	24	5	22
7	5	23	5	22	5	20	5	19	5	17	5	15
8	5	17	5	16	5	14	5	12	5	10	5	8
9	5	12	5	10	5	8	5	5	5	3	5	2
10	5	5	5	3	5	1	4	59	4	56	4	53
11	4	59	4	57	4	54	4	52	4	49	4	46
12	4	53	4	51	4	48	4	45	4	42	4	38
13	4	47	4	44	4	41	4	38	4	34	4	30
14	4	41	4	37	4	34	4	30	4	27	4	23
15	4	34	4	31	4	27	4	23	4	19	4	14
16	4	27	4	24	4	20	4	15	4	11	4	6
17	4	21	4	17	4	12	4	8	4	3	3	57
18	4	14	4	9	4	5	4	0	3	54	3	48
19	4	7	4	2	3	56	3	51	3	45	3	39
20	3	59	3	54	3	49	3	43	3	36	3	29
21	3	52	3	46	3	40	3	34	3	27	3	19
22	3	44	3	38	3	31	3	24	3	17	3	9
23	3	36	3	29	3	23	3	15	3	6	2	57
24	3	27	3	20	3	13	3	5	2	55	2	45

at Aberdeen in Scotland, on the Longeſt Day; the Latitude of that Place i accounted 57 Degr. 7 Min. North, and the Sun's Declination 23 Deg. 28 Min. likewiſe North. By theſe you will find by the Table, that 5 Min. for the Sun's Declination, and 1 Min. for the Latitude of the Place, are both, to be added to 8 Hours 49 Min. the Time belonging to 57 Degr. of Latitude and 23 Degr. of North Declination, and the Sum will be 8 Hours 55 Min. the Time of his apparent Setting at Aberdeen, on the longeſt Day, whoſe Complement to 12 Hours, viz. 3 Hours 5 Min. will be the Time of his Riſing, &c.

A Table of the Sun's Right-Aſcenſion in Time, the greateſt

Degr.	♈			♉			♊			♋			♌			♍		
	h	m	s	h	m	s	h	m	s	h	m	s	h	m	s	h	m	s
0	0	0	0	1	51	37	3	51	15	6	0	0	8	8	45	10	8	23
1	0	3	40	1	55	27	3	55	25	6	4	22	8	12	54	10	12	12
2	0	7	20	1	59	17	3	59	36	6	8	43	8	17	3	10	16	0
3	0	11	0	2	3	8	4	3	48	6	13	5	8	21	11	10	19	48
4	0	14	41	2	6	59	4	8	0	6	17	26	8	25	19	10	23	35
5	0	18	21	2	10	51	4	12	13	6	21	48	8	29	26	10	27	22
6	0	22	2	2	14	44	4	16	26	6	26	9	8	33	31	10	31	8
7	0	25	42	2	18	37	4	20	40	6	30	30	8	37	37	10	34	54
8	0	29	23	2	22	31	4	24	55	6	34	51	8	41	41	10	38	40
9	0	33	4	2	26	25	4	29	10	6	39	11	8	45	45	10	42	25
10	0	36	45	2	30	20	4	33	26	6	43	31	8	49	48	10	46	9
11	0	40	26	2	34	16	4	37	42	6	47	51	8	53	51	10	49	53
12	0	44	8	2	38	13	4	41	59	6	52	11	8	57	52	10	53	37
13	0	47	50	2	42	10	4	46	16	6	56	31	9	1	53	10	57	20
14	0	51	32	2	46	8	4	50	34	7	0	50	9	5	53	11	1	3
15	0	55	14	2	50	7	4	54	52	7	5	8	9	9	53	11	4	46
16	0	58	5	2	54	7	4	59	10	7	9	26	9	13	52	11	8	28
17	1	2	40	2	58	7	5	3	29	7	13	44	9	17	50	11	12	10
18	1	6	23	3	2	8	5	7	49	7	18	1	9	21	47	11	15	52
19	1	10	7	3	6	9	5	12	9	7	22	18	9	25	44	11	19	34
20	1	13	51	3	10	12	5	16	29	7	26	34	9	29	40	11	23	15
21	1	17	35	3	14	15	5	20	49	7	30	50	9	33	35	11	26	56
22	1	21	20	3	18	19	5	25	9	7	35	5	9	37	29	11	30	37
23	1	25	6	3	22	23	5	29	30	7	39	20	9	41	23	11	34	18
24	1	28	52	3	26	29	5	33	51	7	43	34	9	45	16	11	37	58
25	1	32	38	3	30	35	5	38	12	7	47	47	9	49	9	11	41	39
26	1	36	25	3	34	41	5	42	34	7	52	0	9	53	1	11	45	19
27	1	40	12	3	38	49	5	46	55	7	56	12	9	56	52	11	49	0
28	1	44	0	3	42	57	5	51	17	8	0	24	10	0	43	11	52	40
29	1	47	48	3	47	6	5	55	38	8	4	35	10	4	33	11	56	20
30	1	51	37	3	51	15	6	0	0	8	8	45	10	8	23	12	0	0

The time of the ſouthing or meridian tranſits of the fixed ſtars in pa. 46, may be found thus. On the noon of the day, preceding the night in which you want to know the time of the ſouthing of any of thoſe ſtars, find the Sun's place in the Ephemeris, and with it take out of the above table his right aſcenſion in time; this you may do by inſpection to a minute, which will be ſufficient for your preſent purpoſe; Then from the right-aſcenſion of the ſtar in pa. 46, ſubtract the right-aſcenſion of the Sun, the remainder will be the eſtimate time of the ſtar's ſouthing, and will not differ from the true time above 2 or 3 minutes at moſt, which may be near enough for ordinary uſes. But when great exactneſs is required, reduce the Sun's place to this eſtimate time, and with it find in the above table his right aſcenſion to econds, which being ſubtracted from that of the ſtar, the remainder will be

the

Obliquity of the Ecliptic being 23° 28′.

Degr.	♎			♏			♐			♑			♒			♓		
	h	m	s	h	m	s	h	m	s	h	m	s	h	m	s	h	m	s
0	12	0	0	13	51	37	15	51	15	18	0	0	20	8	45	22	8	23
1	12	3	40	13	55	27	15	55	25	18	4	22	20	12	54	22	12	12
2	12	7	20	13	59	17	15	59	36	18	8	43	20	17	3	22	16	0
3	12	11	0	14	3	8	16	3	48	18	13	5	20	21	11	22	19	48
4	12	14	41	14	6	59	16	7	0	18	17	26	20	25	19	22	23	35
5	12	18	21	14	10	51	16	12	13	18	21	48	20	29	26	22	27	22
6	12	22	2	14	14	44	16	16	26	18	26	9	20	33	31	22	31	8
7	12	25	42	14	18	37	16	20	40	18	30	30	20	37	37	22	34	54
8	12	29	23	14	22	31	16	24	55	18	34	51	20	41	41	22	38	40
9	12	33	4	14	26	25	16	29	10	18	39	11	20	45	45	22	42	25
10	12	36	45	14	30	20	16	33	26	18	43	31	20	49	48	22	46	9
11	12	40	26	14	34	16	16	37	42	18	47	51	20	53	51	22	49	53
12	12	44	8	14	38	13	16	41	59	18	52	11	20	57	52	22	53	37
13	12	47	50	14	42	10	16	46	16	18	56	31	21	1	53	22	57	20
14	12	51	32	14	46	8	16	50	34	19	0	50	21	5	53	23	1	3
15	12	55	14	14	50	7	16	54	52	19	5	8	21	9	53	23	4	46
16	12	58	57	14	54	7	16	59	10	19	9	26	21	13	52	23	8	28
17	13	2	40	14	58	7	17	3	29	19	13	44	21	17	50	23	12	10
18	13	6	23	15	2	8	17	7	49	19	18	1	21	21	47	23	15	52
19	13	10	7	15	6	9	17	12	9	19	22	18	21	25	44	23	19	34
20	13	13	51	15	10	12	17	16	29	19	26	34	21	29	40	23	23	15
21	13	17	35	15	14	15	17	20	49	19	30	50	21	33	35	23	26	56
22	13	21	20	15	18	19	17	25	9	19	35	5	21	37	29	23	30	37
23	13	25	6	15	22	23	17	29	30	19	39	20	21	41	23	23	34	18
24	13	28	52	15	26	29	17	33	51	19	43	34	21	45	16	23	37	58
25	13	32	38	15	30	35	17	38	12	19	47	47	21	49	9	23	41	39
26	13	36	25	15	34	41	17	42	34	19	52	0	21	53	1	23	45	19
27	13	40	12	15	38	49	17	46	55	19	56	12	21	56	52	23	49	0
28	13	44	0	15	42	57	17	51	17	20	0	24	22	0	43	23	52	40
29	13	47	48	15	47	6	17	55	38	20	4	35	22	4	33	23	56	20
30	13	51	37	15	51	15	18	0	0	20	8	45	22	8	23	24	0	0

the true time of the ſtar's culminating or ſouthing. And if from the time of the ſtar's ſouthing you ſubtract the ſemidiurnal arc belonging to it, the remainder will be the time of the ſtar's riſing; and being added to it, the ſum will be the time of its ſetting.

Annexed is an Ex. of **Sirius** for Jan, 31, 1792.

☉'s place at noon ♒ 10° 38′	h	m	s
℞t. Aſc. of Sirius - -	6	35	58
☉'s rt. aſc. ſubtract -	20	52	22
*'s eſtimate ſouthing -	9	43	36
☉'s rt. aſc. at that time ſub.	20	54	03
*'s true ſouthing - -	9	41	55
Semid. arc ſub. & add -	4	36	55
*'s riſing aftern. - -	5	5	00
*'s ſetting - -	14	18	50

A Table of the mean Right-Aſcenſions in time, Semidurnal-Arcs, Declinations, and Magnitudes of 40 remarkable fixed Stars, with their Names, and Bayer's Literal Characters, for January 1, 1790.

Names of the Stars	Ch.	Rt. Aſc.			Declination				Semid. Ar.			Ma
		h	m	s	°	′	″		h	m	s	
Pole ſtar, Alruccabah -	α	0	48	57	88	11	34	n	ſets not			2
Andromeda's girdle, Mirach -	β	0	57	48	34	29	47	n	10	7	32	2
Andromeda's left foot, Almach	γ	1	51	10	41	18	41	n	ſets not			2
Ram's following horn -	α	1	55	18	22	27	43	n	8	9	35	2
Whale's jaw, Menkar -	α	2	51	19	3	15	11	n	6	19	48	2
Meduſa's head, Algol - -	β	2	54	32	40	7	41	n	ſets not			2
Perſeus's right ſide, Algenib	α	3	9	26	49	7	6	n	ſets not			2
Brighteſt of the 7 ſtars -	η	3	35	2	23	26	22	n	8	16	40	3
Bull's ſouth eye, Aldebaran	α	4	23	51	16	4	19	n	7	28	51	1
Auriga's left ſhoulder, Capella	α	5	1	11	45	46	57	n	ſets not			1
Orion's left foot, Rigel -	β	5	4	27	8	27	38	s	5	20	28	1
Bull's north horn - -	β	5	12	57	28	25	12	n	8	57	1	2
Orion's left ſhoulder, Bellatrix	γ	5	13	54	6	8	50	n	6	34	41	2
Orion's girdle - -	ε	5	25	32	1	21	22	s	5	56	42	2
Orion's right ſhoulder, Betelgeuſe	α	5	43	46	7	21	2	n	6	40	58	1
In the great Dog's mouth, Sirius	α	6	35	58	16	25	8	s	4	36	55	1
Head of the 1ſt Twin, Caſtor	α	7	21	11	32	19	57	n	9	38	21	1
In the leſs Dog's thigh, Procyon	α	7	28	21	5	46	33	n	6	32	50	1
Head of the 2d Twin, Pollux	β	7	32	30	28	31	19	n	8	58	13	2
Hydra's heart, Alphard -	α	9	17	15	7	45	30	s	5	24	20	2
Lyon's heart, Regulus -	α	9	57	11	12	58	43	n	7	11	28	1
Great Bear, Lower Pointer	β	10	49	4	57	30	19	n	ſets not			2
Great Bear, Upper Pointer -	α	10	50	39	62	53	25	n	ſets not			2
Lion's tail, Deneb - -	β	11	38	24	15	44	22	n	7	27	18	2
Great Bear, 1ſt in the tail, Aliath	ε	12	45	5	57	7	0	n	ſets not			2
Virgius's ſpike - -	α	13	14	10	10	3	38	s	5	12	20	1
Dragon's tail - -	α	13	58	42	65	20	53	n	ſets not			2
Bootes, Arcturus -	α	14	6	11	20	20	20	n	7	55	26	1
Libra, Southern Scale - -	α	14	39	22	15	9	30	s	4	44	23	2
Libra, Northern Scele - -	β	15	5	47	8	36	4	s	5	19	57	2
Bright ſtar in the North Crown	α	15	25	49	27	25	35	n	8	48	36	2
Scorpion's heart, Antares	α	16	16	35	25	56	54	s	3	34	6	1
Hercules's head, Raſ. Algethi	α	17	5	7	14	38	4	n	7	20	41	2
Head of Serpentarius - -	α	17	25	8	12	43	20	n	7	9	50	2
Dragon's head, Raſtaben -	γ	17	51	51	51	31	28	n	ſets not			2
Bright ſtar in the Harp, Lyra	α	18	29	45	38	35	39	n	ſets not			1
Bright ſtar in the Eagle, Atair	α	19	40	25	8	18	55	n	6	45	57	2
Mouth of ſouth Fiſh, Fomalhaut	α	22	45	53	30	43	12	s	2	52	6	1
Pegaſus's wing, Markab -	α	22	54	15	14	4	11	n	7	17	10	2
Andromeda's head - -	α	23	57	29	27	55	38	n	8	52	19	2

A Table of the Longitudes, Latitudes, and Magnitudes of the moſt remarkable fixed Stars that the Moon can Eclipſe, or make a near Appulſe unto; exactly rectified to the beginning of the year 1790.

Con.	Cha.	Long.	Lat.	Mag.	Con.	Cha.	Long.	Lat.	Mag.
		° ′ ″	° ′ ″				° ′ ″	° ′ ″	
♓	δ	♈ 11 13 11	2 9 44 n	4	♎	α	♏ 12 9 29	0 21 48 n	2
	ε	14 36 25	1 5 37 n	4		12	18 4 37	1 49 14 s	3
	ζ	16 56 25	0 13 11 s	4		γ	22 12 6	4 24 41 n	3
♈	δ	♉ 17 54 44	1 48 7 n	4		η	24 26 33	4 2 52 n	4
♉	η	27 3 44	4 1 36 n	3		κ	24 49 47	0 1 1 n	4
	γ	♊ 2 52 0	5 45 30 s	3		θ	26 56 12	3 29 24 n	4
	ε	5 31 37	2 35 37 s	3		λ	27 32 46	0 6 53 n	4
	α	6 51 20	5 29 2 s	1	♏	δ	29 38 28	1 57 17 s	3
	β	19 38 37	5 21 59 n	2		π	♐ 0 0 35	5 26 15 s	3
	ζ	21 51 15	2 13 29 s	3		β	0 15 33	1 2 18 n	2
♊	η	♋ 0 30 37	0 55 4 s	4		ν	1 42 50	1 39 52 n	4
	μ	2 22 2	0 50 34 s	3		σ	4 52 13	4 0 23 s	4
	γ	5 10 20	6 46 12 s	2		α	6 49 58	4 32 17 s	1
	ε	7 0 30	2 2 28 n	3		τ	8 31 42	6 5 21 s	4
	δ	15 35 29	0 12 19 s	3	♐	γ	28 20 3	6 56 48 s	3
	β	20 19 34	6 40 4 n	1		μ	♑ 0 16 58	2 22 24 n	4
♋	γ	♌ 4 36 51	3 10 22 n	4			5 23 31	2 5 31 s	4
	δ	5 47 9	0 4 13 n	4		λ	7 14 48	3 55 22 s	3
♌	ξ	18 43 23	3 1 57 s	4		σ	9 27 17	3 24 55 s	3
	ο	21 19 38	3 46 1 s	4		τ	11 54 32	5 2 33 s	3
	η	24 58 23	4 51 9 n	4		ο	12 3 36	0 53 36 n	3
	α	26 54 49	0 27 27 n	1		π	13 19 21	1 28 7 n	4
	ρ	♍ 3 27 25	0 8 29 n	4	♑	β	♒ 1 6 55	4 36 46 n	3
	τ	18 34 47	0 31 21 s	4		ε	17 16 0	4 57 31 s	4
	υ	22 6 32	3 2 51 s	4		γ	18 50 53	2 32 6 s	4
♍	β	24 10 47	0 41 36 n	3		δ	20 36 5	2 33 40 s	3
	ο	♎ 0 26 10	5 4 42 n	3	♒	ι	25 47 17	2 3 47 s	4
	η	1 54 16	1 22 24 n	3		θ	♓ 0 19 42	2 43 22 n	4
	γ	7 14 41	2 48 57 n	3		λ	8 38 43	0 22 57 s	4
	α	20 54 50	2 2 11 s	1		φ	14 12 30	1 2 8 s	4

This table ſhewing the mean longitudes of 60 ſtars to the beginning of the year 1790, their mean longitudes for any other time may be found if 50⅓ ſeconds be added for each ſucceeding, and ſubtracted for each preceding year, and proportionably for a part of a year. Thus, to find the longitude of the firſt ſtar ♓ δ, or δ piſcium, for Feb. 15, 1792, or 2 years and one eighth after the tabular time; here 2⅛ times 50⅓ ſec. make 1′ 47″, which being added to the tabular longitude, gives ♈ 11° 14′ 58″ for the longitude required at the given time.——The latitudes vary not.

The Latitudes and Longitudes of Ninety Places.

	Lat. ° '	Long. ° '		Lat. ° '	Long. ° '
Alexandria, Egypt	31 11 n	30 17 e	Iſpahan	32 25 n	52 55 e
Amſterdam, Hol.	52 23 n	4 52 e	Land's end	50 6 n	5 50 w
Archangel, Ruſ.	64 34 n	38 30 e	Leghorn	43 33 n	10 25 e
Athens	37 40 n	23 52 e	Leoſtoff	52 38 n	1 54 e
Babelmandel	12 50 n	43 50 e	Leverpool	53 22 n	3 10 w
Batavia	6 12 s	106 45 e	Lima	12 2 s	76 50 w
Bengal	22 0 n	92 45 e	Liſbon	38 42 n	9 4 w
Berlin	52 33 n	13 26 e	Lizard	49 57 n	5 21 w
Bombay Iſle	19 42 n	73 3 e	London	51 31 n	0 0
Boſton, Amer.	42 25 n	70 37 w	Madras	13 8 n	80 7 e
Breſlau	51 3 n	17 13 e	Madrid	40 25 n	3 45 w
Breſt	48 23 n	4 30 w	Manila	14 30 n	120 25 e
Briſtol	51 28 n	2 30 w	Marſeilles	43 18 n	5 21 e
Buenos Ayres	34 35 s	58 0 w	Mexico	19 54 n	100 5 w
Cadiz	36 31 n	6 7 w	Miſſiſſipi, mouth	29 0 n	89 17 w
Calais	50 58 n	1 51 e	Moſcow	55 25 n	37 51 e
Cairo, Egypt	30 2 n	31 26 e	Naples	40 51 n	14 19 e
Cambridge	52 13 n	0 4 e	Newcaſtle	55 0 n	1 18 w
Canaria Iſlands	28 1 n	15 0 w	Oporto	40 53 n	8 35 w
Canton	23 8 n	113 2 e	Orkney I. northend	59 24 n	3 23 w
Cape of Goodhope	34 29 s	18 23 e	Oxford	51 45 n	1 16 w
Cape Horn	55 59 s	67 26 w	Paris	48 50 n	2 25 e
Carthegena	10 27 n	75 26 w	Pekin	39 55 n	116 22 e
Charles Town Am.	33 22 n	79 50 w	Peterſburg	59 56 n	30 19 e
Conſtantinople	41 0 n	28 53 e	Philadelphia	39 57 n	75 18 w
Copenhagen	55 41 n	12 50 e	Plymouth	50 24 n	4 15 w
Corinth	37 30 n	23 0 e	Port Mahon	39 51 n	3 53 e
Corke	51 54 n	8 30 w	Port Royal, Jam.	17 40 n	76 37 w
Dantzic	54 22 n	18 36 e	Portſmouth	50 48 n	1 1 w
Dover	51 7 n	1 19 e	Prague	50 5 n	14 15 e
Dublin	53 12 n	6 55 w	Quebec	46 55 n	71 12 w
Edinburgh	55 58 n	3 1 w	Rome	41 54 n	12 32 e
Ferro, Iſle	27 48 n	18 6 w	Scilly Iſles	50 0 n	6 45 w
Finiſterre, Cape	42 57 n	9 36 w	Smyrna	38 28 n	27 25 e
Genoa	44 25 n	8 41 e	Stockholm -	59 22 n	18 12 e
Gibraltar	36 5 n	4 46 w	Syracuſe	37 4 n	15 20 e
Glaſgow	55 52 n	4 5 w	Tangier	35 55 n	5 45 w
Goa	15 31 n	73 50 e	Teneriff	28 16 n	16 32 w
Gottingen	51 32 n	9 58 e	Tunis	36 47 n	10 16 e
Greenwich	51 29 n	0 5 e	Turin	45 5 n	7 45 e
Hacluit's Head.	79 55 n	12 0 e	Venice	45 27 n	12 24 e
Halifax, America	44 46 n	63 20 w	Verd, Ca[illegible]	14 47 n	17 28 w
Havanna	23 12 n	81 11 w	Vienna	[illegible] 11 n	16 28 e
Helena, I. St.	15 55 s	5 49 w	Upſal	[illegible]2 n	17 43 e
Jeruſalem	31 50 n	35 25 e	Urani[illegible]	[illegible]54 n	12 52 e

FINI[illegible]

30 SEP